

Fig. 1

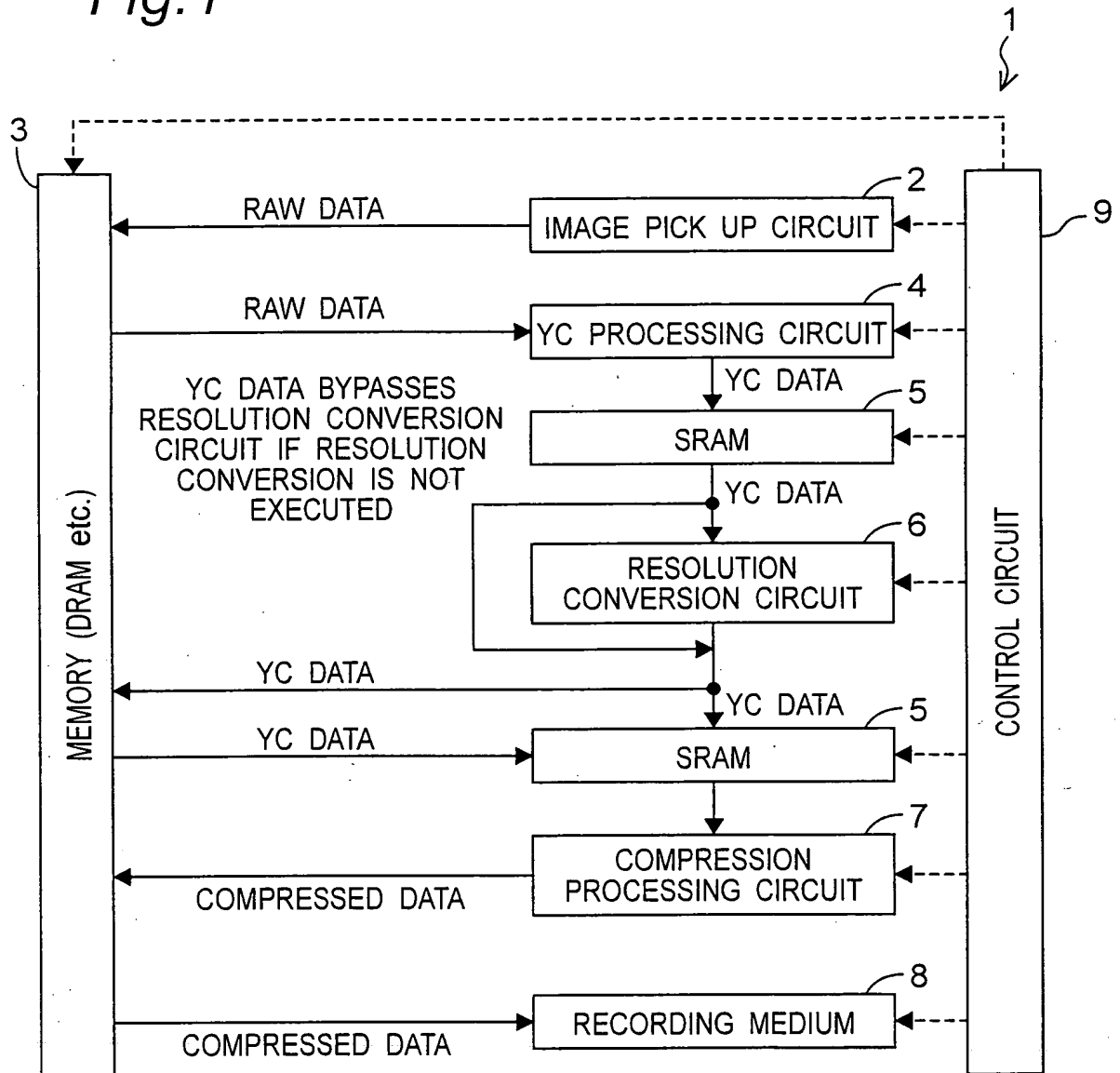


Fig.2

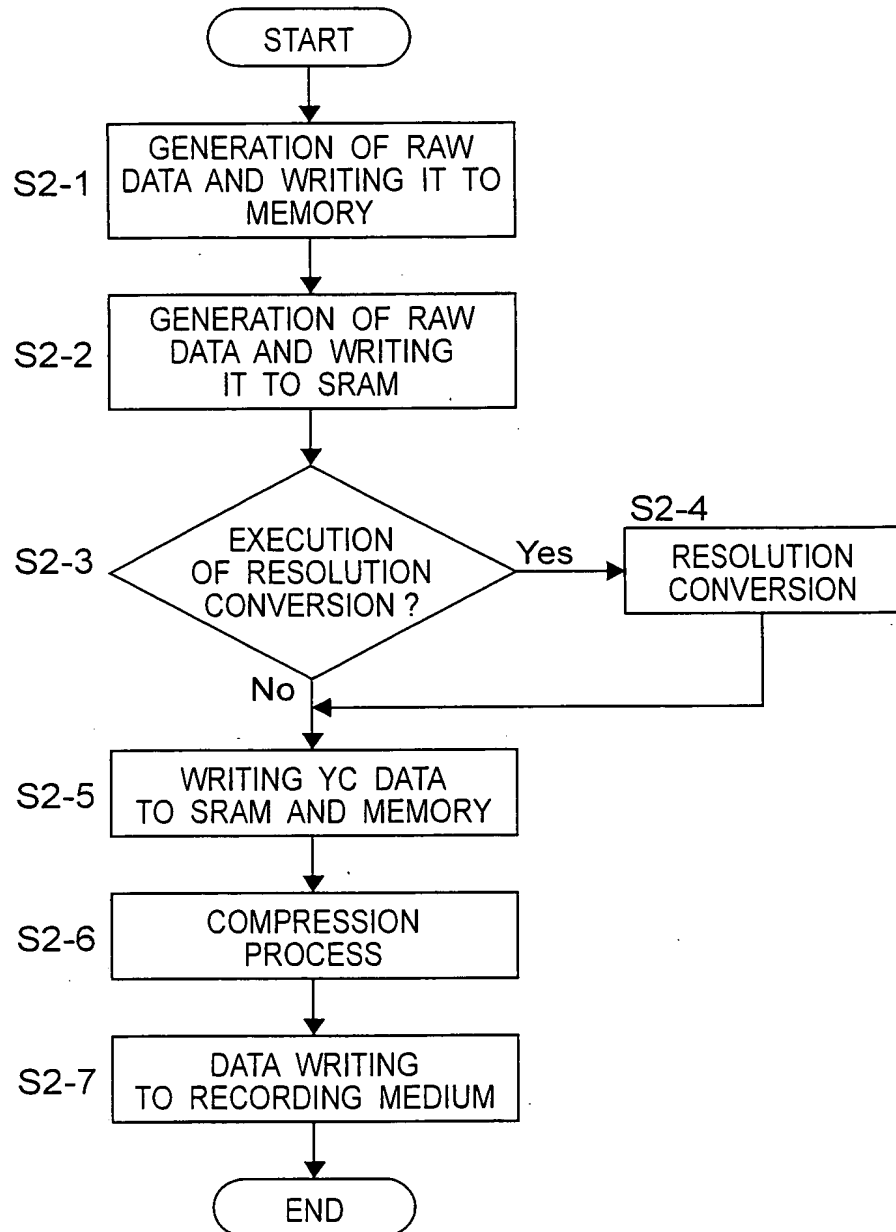


Fig. 3

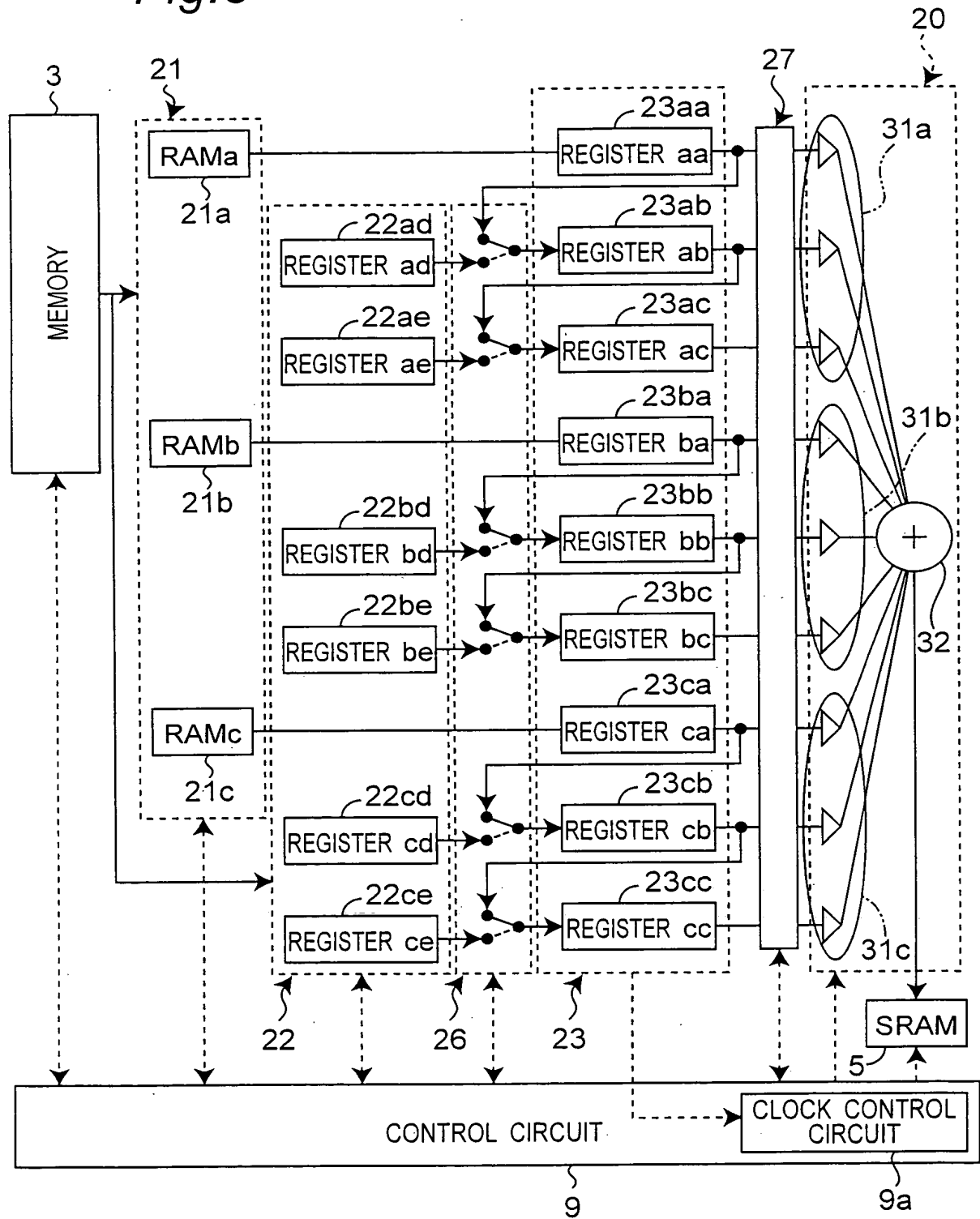


Fig. 4

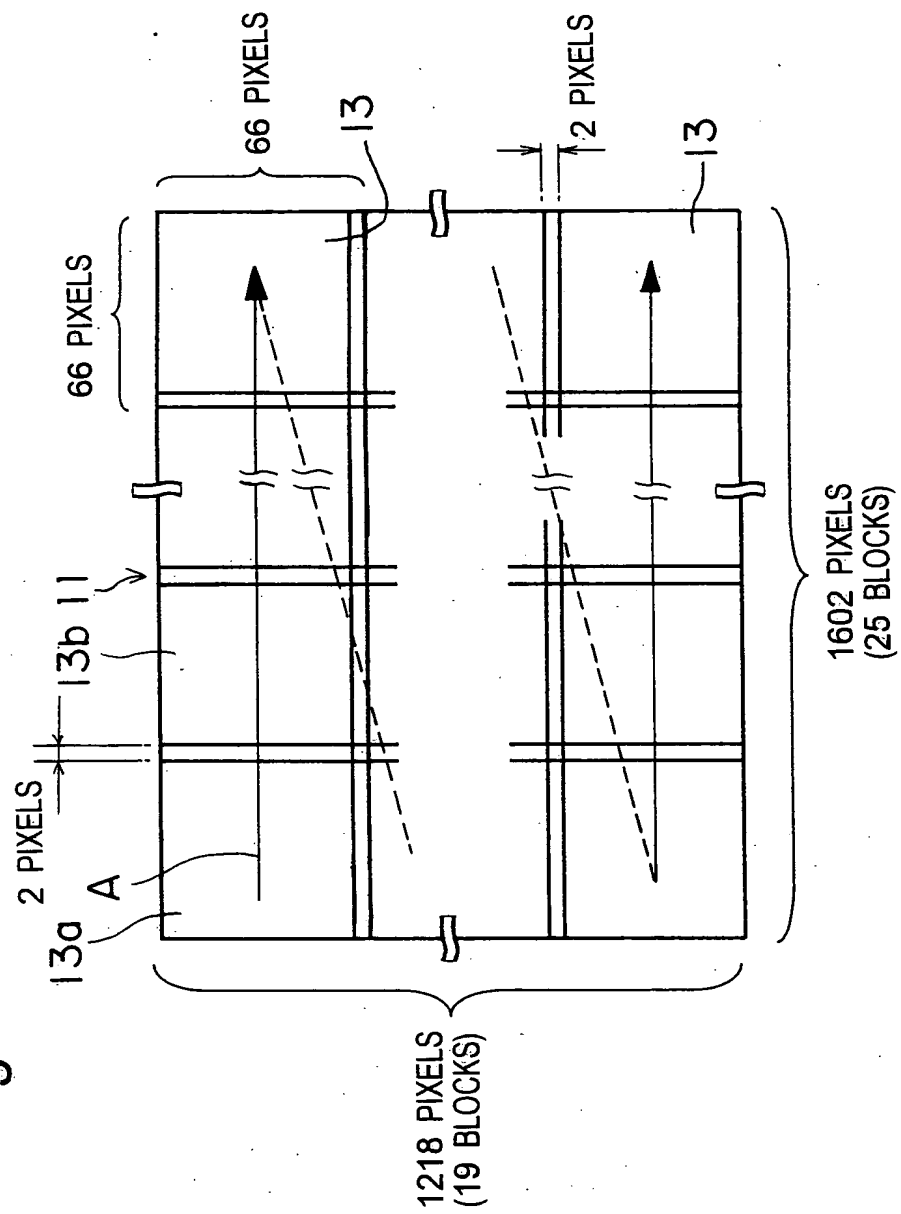


Fig. 5

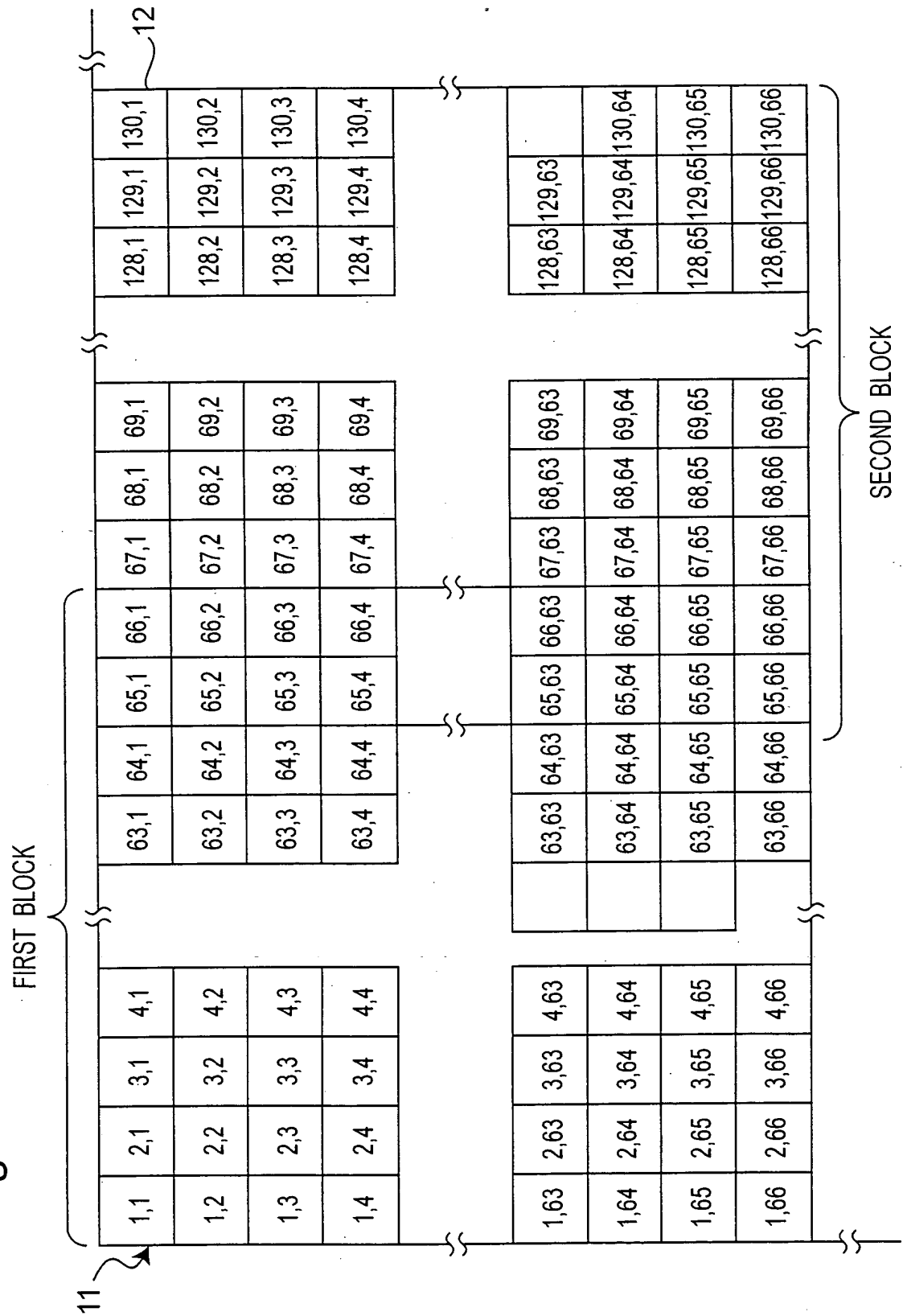


Fig. 6

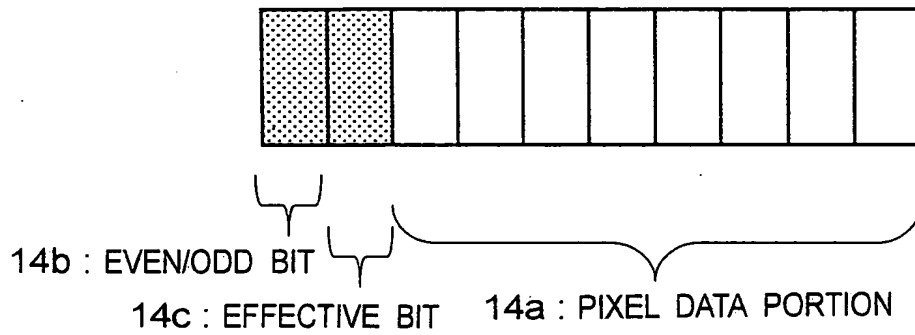


Fig. 7

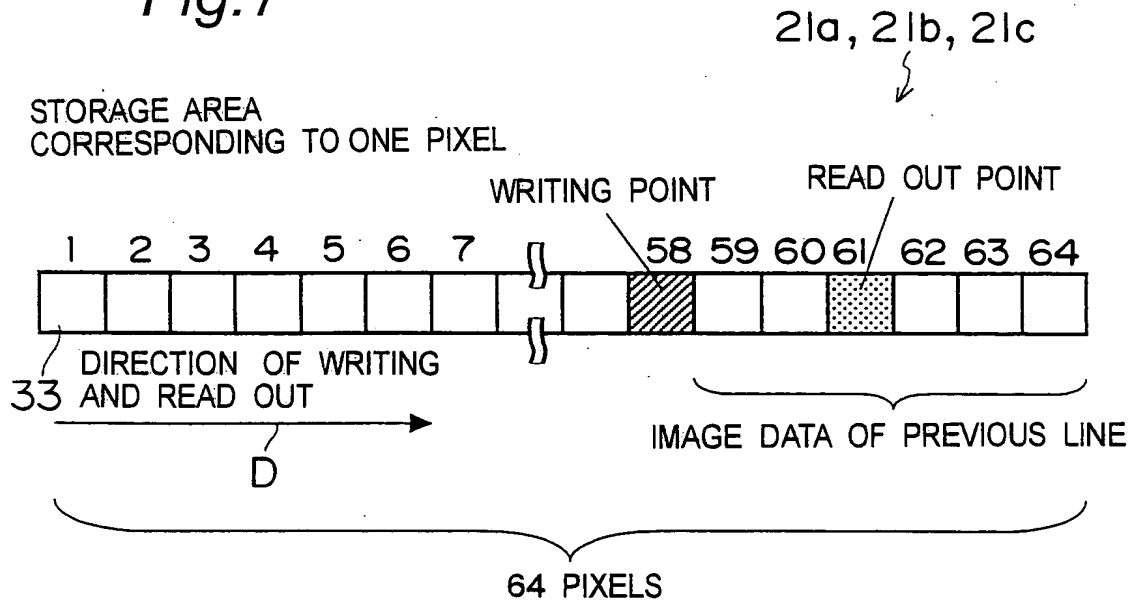


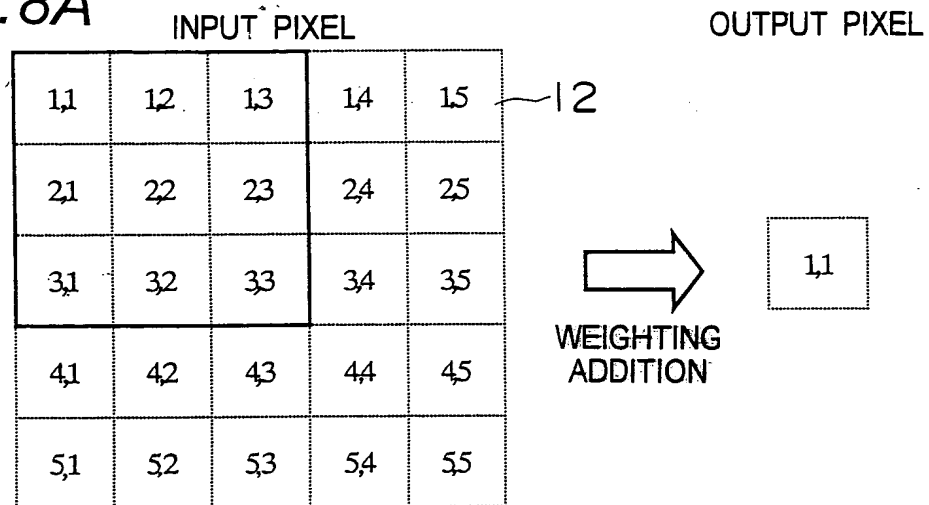
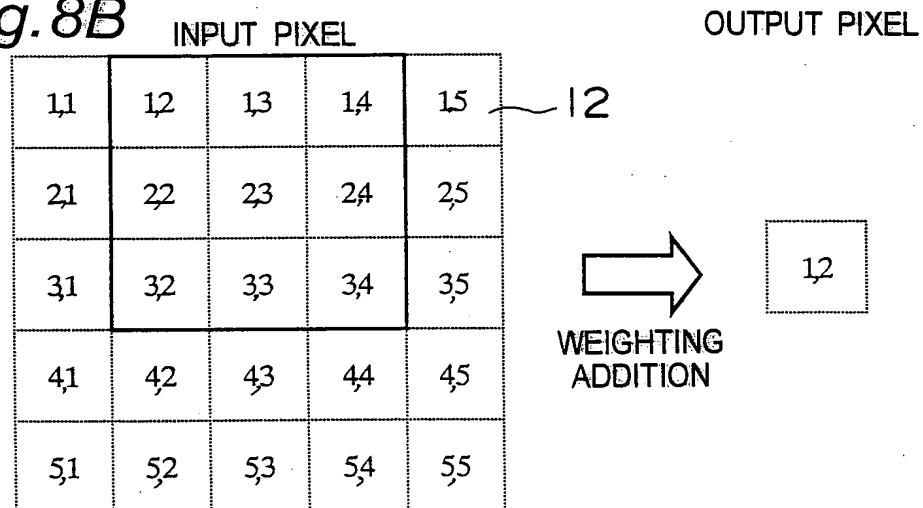
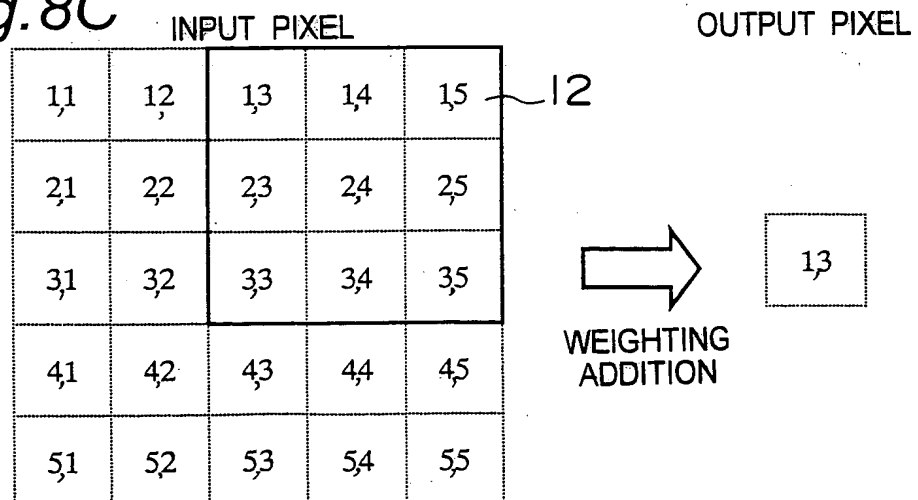
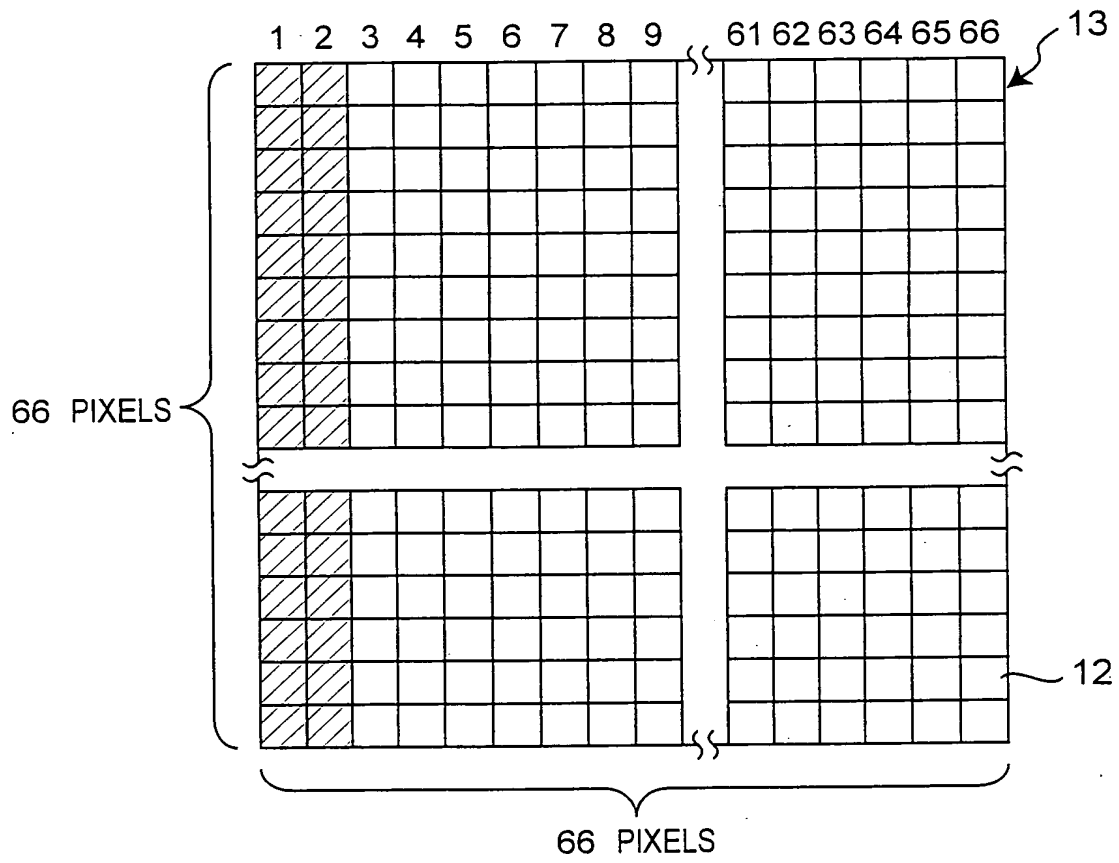
Fig. 8A*Fig. 8B**Fig. 8C*

Fig.9



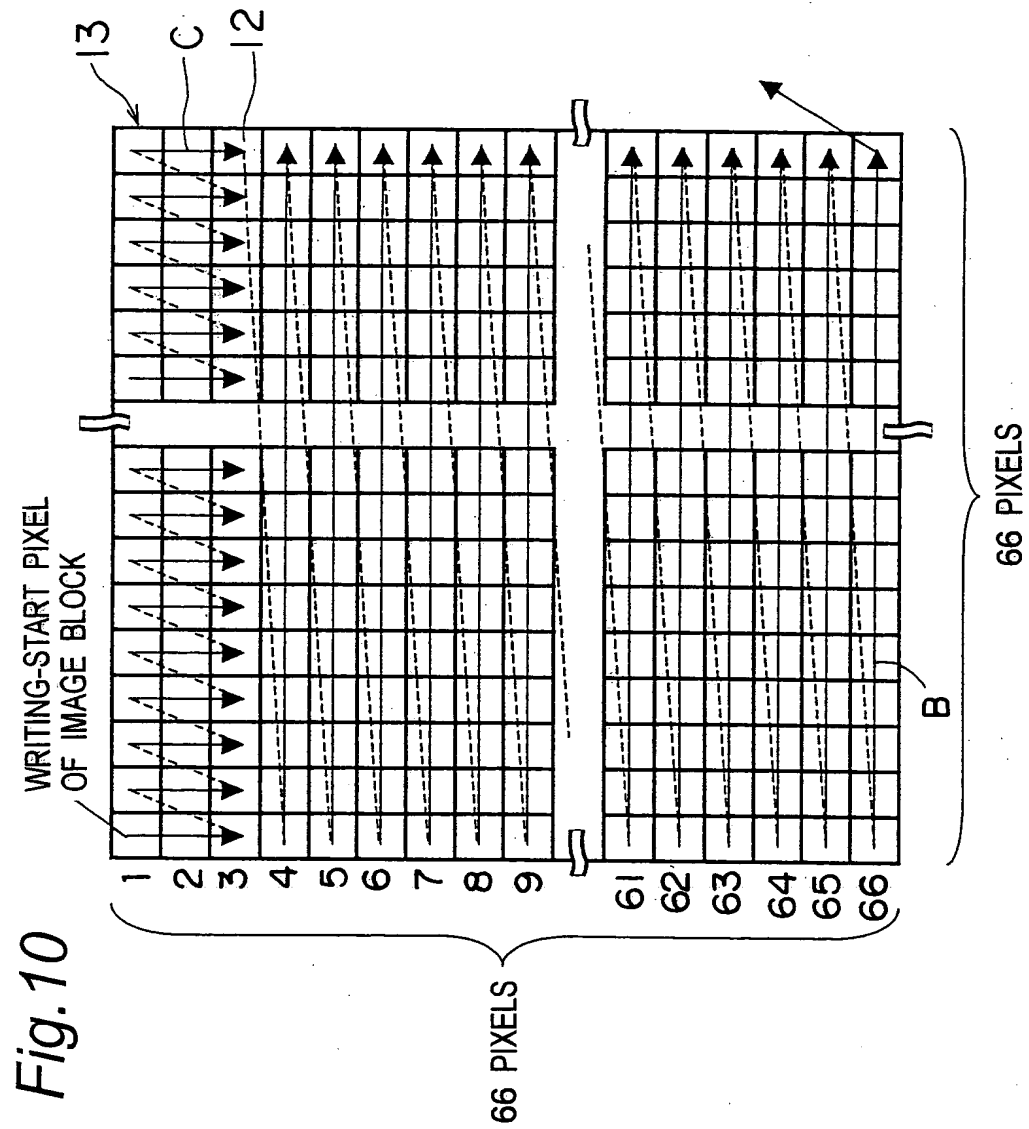


Fig. 11

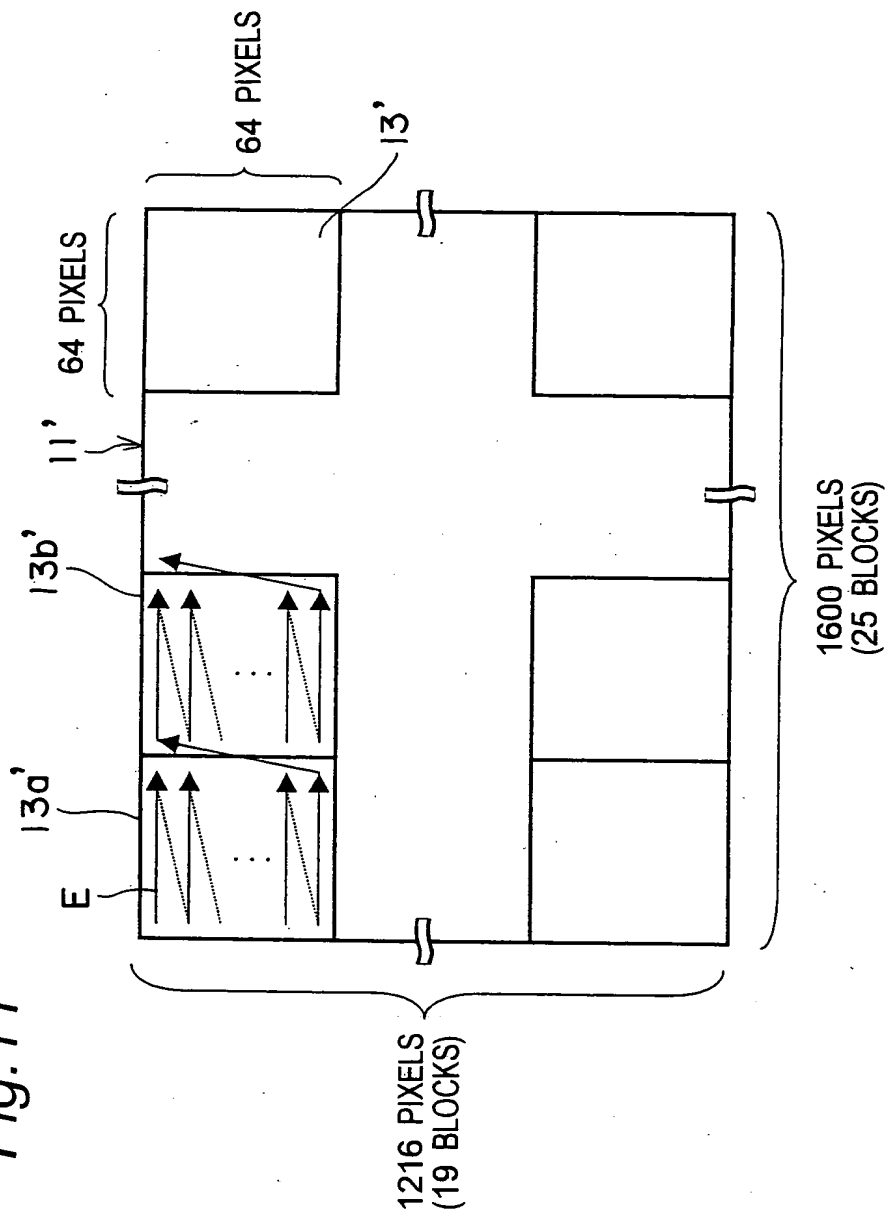


Fig. 12

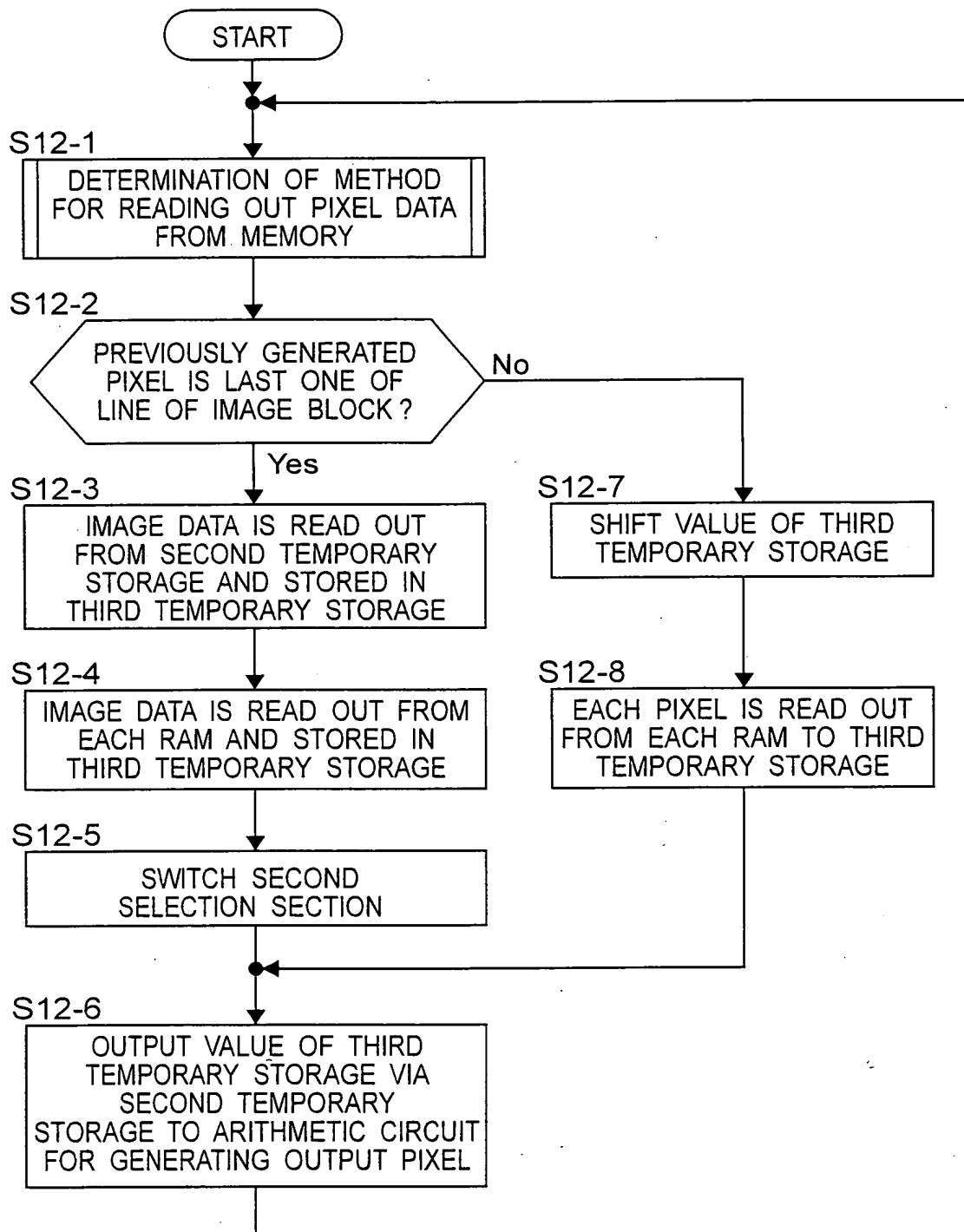


Fig.13

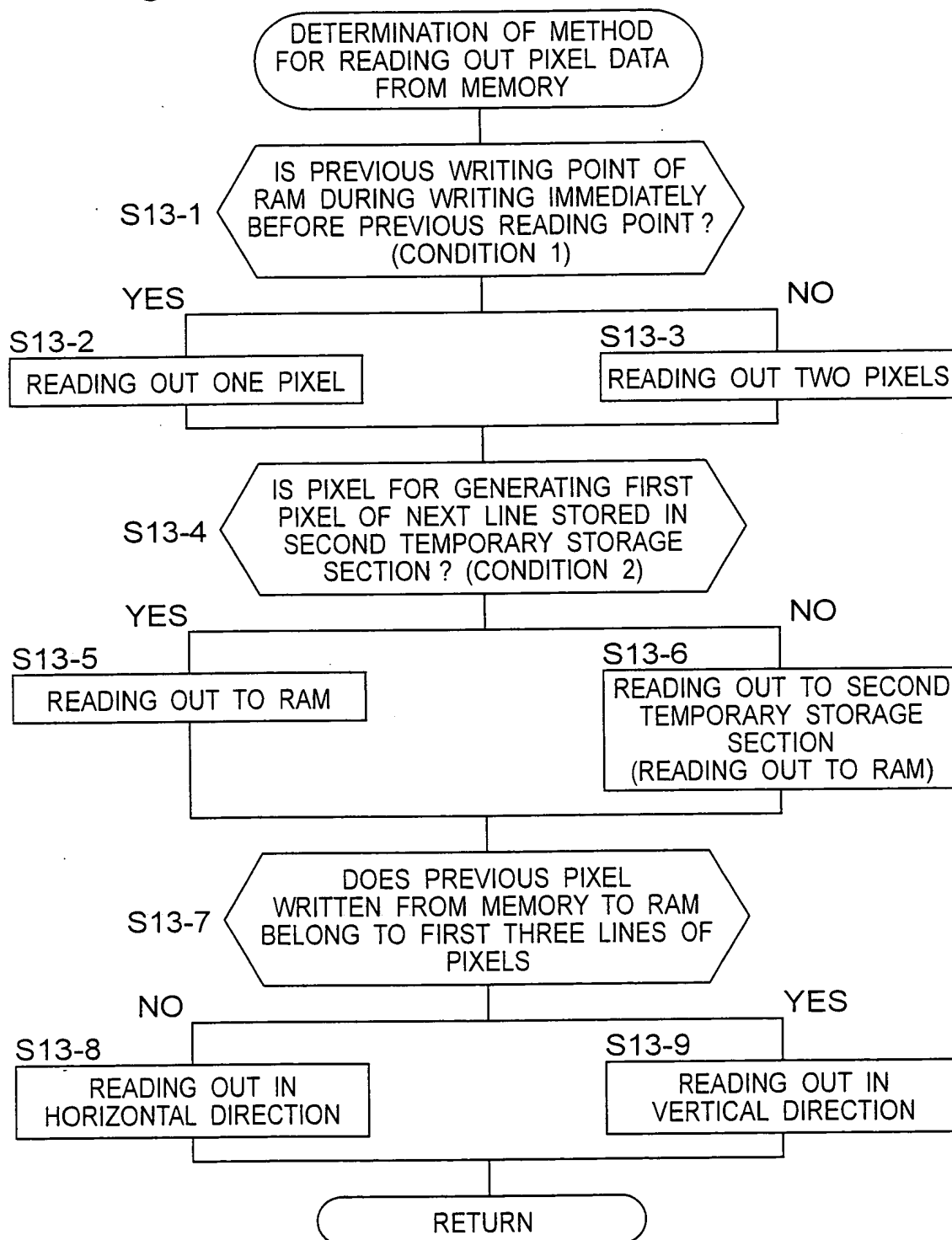


Fig. 14

<div>CONDITION 1</div> <div>CONDITION 2</div> <div>CONDITION 3</div>	PREVIOUS WRITING POINT OF RAM UNDER WRITING IS IMMEDIATELY BEFORE PREVIOUS READING POINT.		PREVIOUS WRITING POINT OF RAM UNDER WRITING IS NOT IMMEDIATELY BEFORE PREVIOUS READING POINT.	
	PIXELS FOR GENERATING FIRST PIXEL OF NEXT LINE HAVE BEEN STORED IN SECOND TEMPORARY STORAGE CIRCUIT.	PIXELS FOR GENERATING FIRST PIXEL OF NEXT LINE HAVE NOT BEEN STORED IN SECOND TEMPORARY STORAGE CIRCUIT.	PIXELS FOR GENERATING FIRST PIXEL OF NEXT LINE HAVE BEEN STORED IN SECOND TEMPORARY STORAGE CIRCUIT.	PIXELS FOR GENERATING FIRST PIXEL OF NEXT LINE HAVE NOT BEEN STORED IN SECOND TEMPORARY STORAGE CIRCUIT.
	PREVIOUS PIXEL WRITTEN TO RAM FROM MEMORY DOES NOT BELONG TO FIRST THREE LINES OF IMAGE BLOCK	(LOADING MEHTOD A) LOAD ONE PIXEL IN HORIZONTAL DIRECTION FROM MEMORY TO RAM	(LOADING MEHTOD B) LOAD ONE PIXEL IN HORIZONTAL DIRECTION FROM MEMORY TO SECOND TEMPORARY STORAGE	(LOADING MEHTOD D) LOAD ONE PIXEL IN HORIZONTAL DIRECTION TO SECOND TEMPORARY STORAGE FROM MEOMORY AND ONE PIXEL IN HORIZONTAL DIRECTION TO RAM FROM MEMORY
PREVIOUS PIXEL WITTEN TO RAM FROM MEMORY BELONGS TO FIRST THREE LINES OF IMAGE BLOCK	(LOADING MEHTOD E) LOAD ONE PIXEL IN VERTICAL DIRECTION FROM MEMORY TO RAM	(LOADING MEHTOD F) LOAD ONE PIXEL IN VERTICAL DIRECTION FROM MEMORY TO SECOND TEMPORARY STORAGE	(LOADING MEHTOD G) LOAD TWO PIXELS IN VERTICAL DIRECTION FROM MEMORY TO RAM	(LOADING MEHTOD H) LOAD ONE PIXEL IN VERTICAL DIRECTION TO SECOND TEMPORARY STORAGE FROM MEOMORY AND ONE PIXEL IN VERTICAL DIRECTION TO RAM FROM MEMORY

Fig. 15

ITEM1	LOADING METHOD FROM MEMORY TO RAM	t	t+1	t+2	t+3	t+4	...
ITEM2	WRITING DESTINATION OF PIXEL READ OUT FROM MEMORY (FIRST PIXEL)	A	A	A	A	B	...
ITEM3	PIXEL WRITTEN TO RAM FROM MEMORY (FIRST PIXEL)	RAM20c	RAM20c	RAM20c	RAM20c	REGISTER 22ae	...
ITEM4	WRITING DESTINATION OF PIXEL READ OUT FROM MEMORY (SECOND PIXEL)	(63, 66)	(64, 66)	(65, 66)	(66, 66)	(65, 1)	...
ITEM5	PIXEL WRITTEN TO RAM FROM MEMORY (SECOND PIXEL)	-	-	-	-	-	...
ITEM6	WRITING POINT	-	-	-	-	-	...
ITEM7	READING POINT	61th	62th	63th	64(0)th	0th	...
ITEM8	SWITCHING STATUS OF SECOND TEMPORARY STORAGE	62th	63th	64th	1th	2th	...
ITEM9	OUTPUT PIXEL	UP	UP	UP	DOWN	UP	...
		(62, 63)	(63, 63)	(64, 63)	(1, 64)	(2, 64)	...

ITEM1	t+5	...	t+9	t+10	...	t+66	t+67	t+68	t+69	...
ITEM2	H	...	H	G	...	G	G	H	H	...
ITEM3	REGISTER 22be	...	REGISTER 22cd	RAM20c	...	RAM20a	RAM20c	REGISTER 22ae	REGISTER 22ad	...
ITEM4	(65, 2)	...	(66, 3)	(68, 3)	...	(106, 1)	(106, 3)	(65, 4)	(66, 4)	...
ITEM5	RAM20a	...	RAM20b	RAM20a	...	RAM20b	RAM20a	RAM20b	RAM20c	...
ITEM6	(67, 1)	...	(68, 2)	(69, 1)	...	(106, 2)	(107, 1)	(107, 2)	(107, 3)	...
ITEM7	1th	...	2th	3th	...	40th	-23th	-23th	-23th	...
ITEM8	3th	...	7th	8th	...	64th	1th	2th	3th	...
ITEM9	UP	...	UP	UP	...	UP	DOWN	UP	UP	...
	(3, 64)	...	(7, 64)	(8, 64)	...	(64, 64)	(65, 1)	(66, 1)	(67, 1)	...

Fig. 16

ITEM1	LOADING METHOD FROM MEMORY TO RAM	t+70	...	t+104	t+105	...
ITEM2	WRITING DESTINATION OF PIXEL READ OUT FROM MEMORY (FIRST PIXEL)	RAM20a	...	G	C	...
ITEM3	PIXEL WRITTEN TO RAM FROM MEMORY (FIRST PIXEL)	(108, 1)	...	RAM20c	RAM20a	...
ITEM4	WRITING DESTINATION OF PIXEL READ OUT FROM MEMORY (SECOND PIXEL)	RAM20b	...	(130, 3)	(68, 4)	...
ITEM5	PIXEL WRITTEN TO RAM FROM MEMORY (SECOND PIXEL)	(108, 2)	...	RAM20a	RAM20a	...
ITEM6	WRITING POINT	-22th	...	(67, 4)	(69, 4)	...
ITEM7	READING POINT	4th	...	1th	3th	...
ITEM8	SWITCHING STATUS OF SECOND TEMPORARY STORAGE	UP	...	38th	39th	...
ITEM9	OUTPUT PIXEL	(68, 1)	...	UP	UP	...
			...	(102, 1)	(103, 1)	...

ITEM1	t+129	t+130	t+131	t+132	t+133	t+134	...	t+142	t+143	...
ITEM1	C	C	C	D	D	C	...	C	A	...
ITEM2	RAM20a	RAM20a	RAM20a	REGISTER 22be	REGISTER 22bd	RAM20a	...	RAM20b	RAM20b	...
ITEM3	(116, 4)	(118, 4)	(120, 4)	(65, 5)	(66, 5)	(124, 4)	...	(76, 5)	(78, 5)	...
ITEM4	RAM20a	RAM20a	RAM20a	RAM20a	RAM20a	RAM20a	...	RAM20b	-	...
ITEM5	(117, 4)	(119, 4)	(121, 4)	(122, 4)	(123, 4)	(125, 4)	...	(77, 5)	-	...
ITEM6	51th	53th	-9th	-7th	-5th	-3th	...	11th	12th	...
ITEM7	63th	64th	1th	2th	3th	4th	...	12th	13th	...
ITEM8	UP	UP	DOWN	UP	UP	UP	...	UP	UP	...
ITEM9	(127, 1)	(128, 1)	(65, 2)	(66, 2)	(67, 2)	(68, 2)	...	(76, 2)	(77, 2)	...

Fig. 17

		X-COORDINATE OF PIXEL																														
Y-COORDINATE OF PIXEL		1	2	3	4	5	6	7	8	9	10	11	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
	1															4	7	5	8	10	12	13	15	16	18	19	21	22	24	25	27	
	2																5	8	6	9	11	12	14	15	17	18	20	21	23	24	26	27
	3																6	9	7	10	11	13	14	16	17	19	20	22	23	25	26	28
	4																68	69	104	105	106	106	107	107	108	108	109	109	110	110	111	
	5																132	133	137	138	138	139	139	140	140	141	141	142	142	143	144	
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	7																															
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		X-COORDINATE OF PIXEL																													
Y-COORDINATE OF PIXEL		101	102	103	104	105	106	107	108	109																					
		1	58	60	61	63	64	66	67	70	71	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130				
2		59	60	62	63	65	66	68	70	72		80	82	83	85	86	88	89	91	92	94	95	97	98	100	101	103				
3		59	61	62	64	65	67	69	71	72		81	82	84	85	87	88	90	91	93	94	96	97	99	100	102	103				
4		121	122	122	123	123	124	124	125	125		81	83	84	86	87	89	90	92	93	95	96	98	99	101	102	104				
5												128	129	129	130	130	131	131	132	133	134	134	135	135	136	136	137				
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12

Fig. 18

		X-COORDINATE OF PIXEL																															
		1	2	3	4	5	6	7	8	9	10	11	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80		
Y-COORDINATE OF PIXEL	1																	67	68	69	70	71	72	73	74	75	76	77	78	79	80		
	2																	67	68	69	70	71	72	73	74	75	76	77	78	79	80		
	3																	67	68	69	70	71	72	73	74	75	76	77	78	79	80		
	4																	67	68	69	70	71	72	73	74	75	76	77	78	79	80		
	5																	131	132	133	134	135	136	137	138	139	140	141	142	143	144		
	6																																
	7																																
Y-COORDINATE OF PIXEL	61																																
	62																																
	63																1	2															
	64				3	4	5	6	7	8	9	10	11	62	63	64	65	66															
	65				3	4	5	6	7	8	9	10	11	62	63	64	65	66															
	66				3	4	5	6	7	8	9	10	11	62	63	64	65	66															

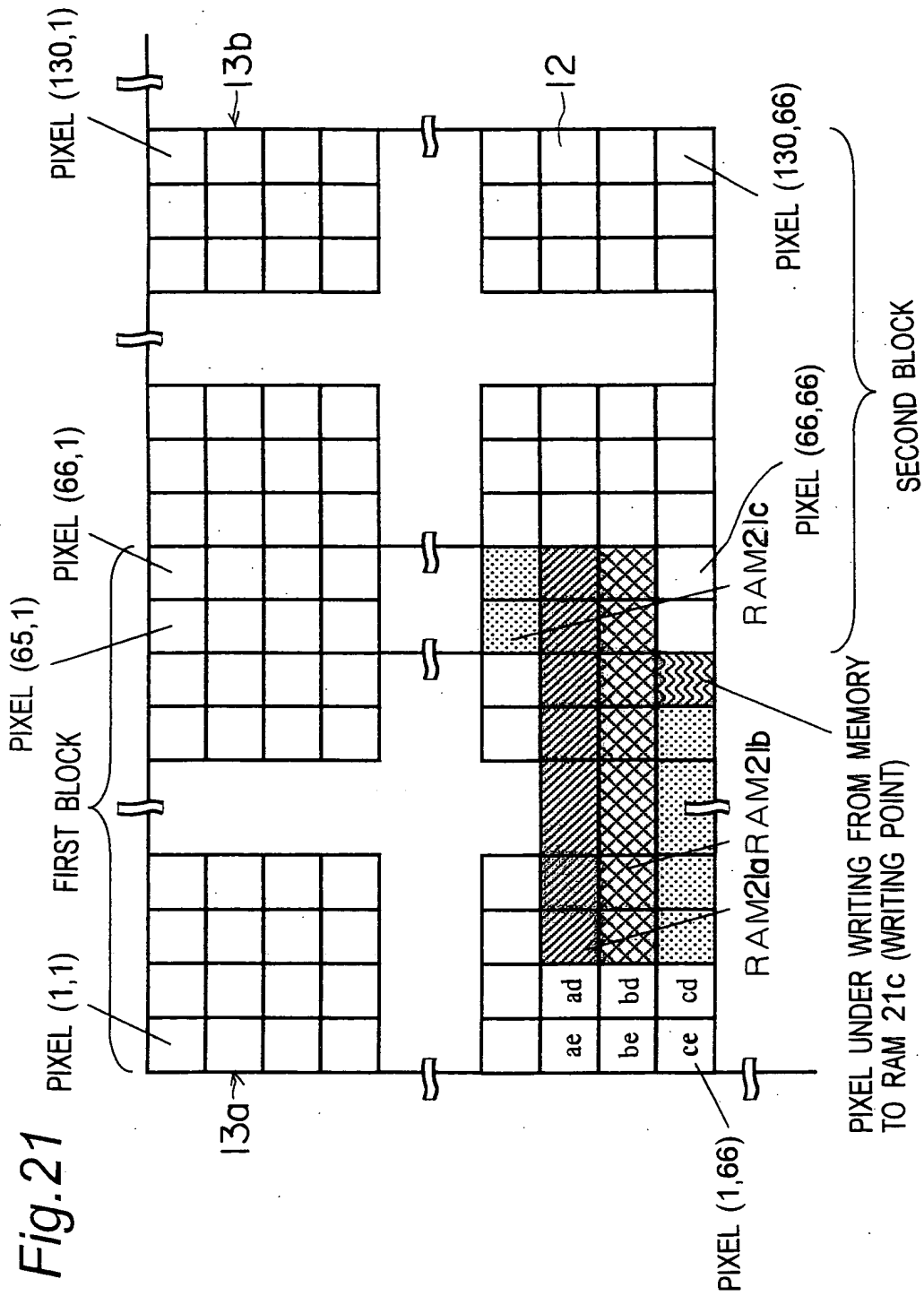
		X-COORDINATE OF PIXEL																									
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Y-COORDINATE OF PIXEL	1	101	102	103	104	105	106	107	108	109		115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130
	2	101	102	103	104	105	106	107	108	109		115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130
	3	101	102	103	104	105	106	107	108	109		115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130
	4	101	102	103	104	105	106	107	108	109	...	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130
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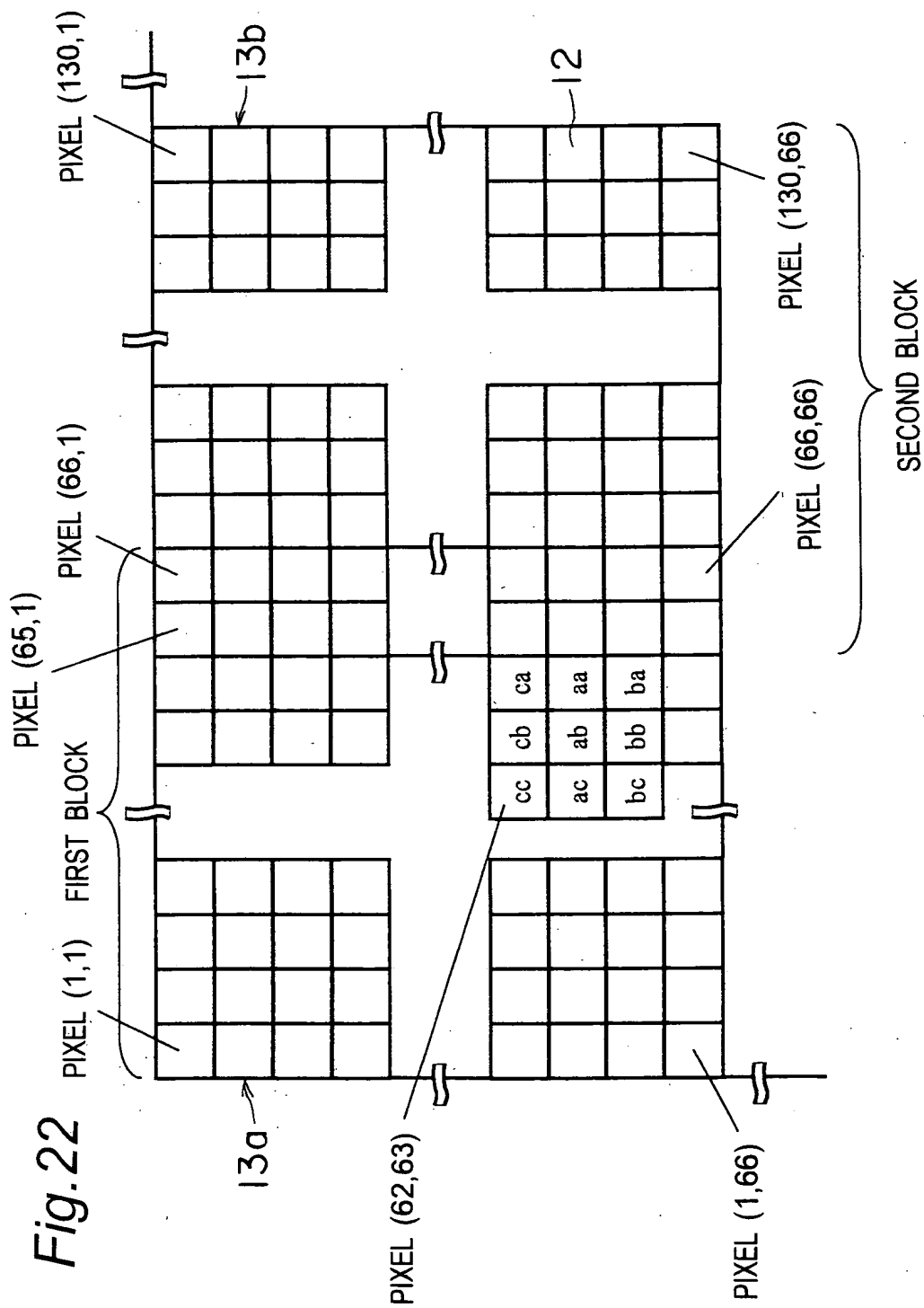
Fig. 19

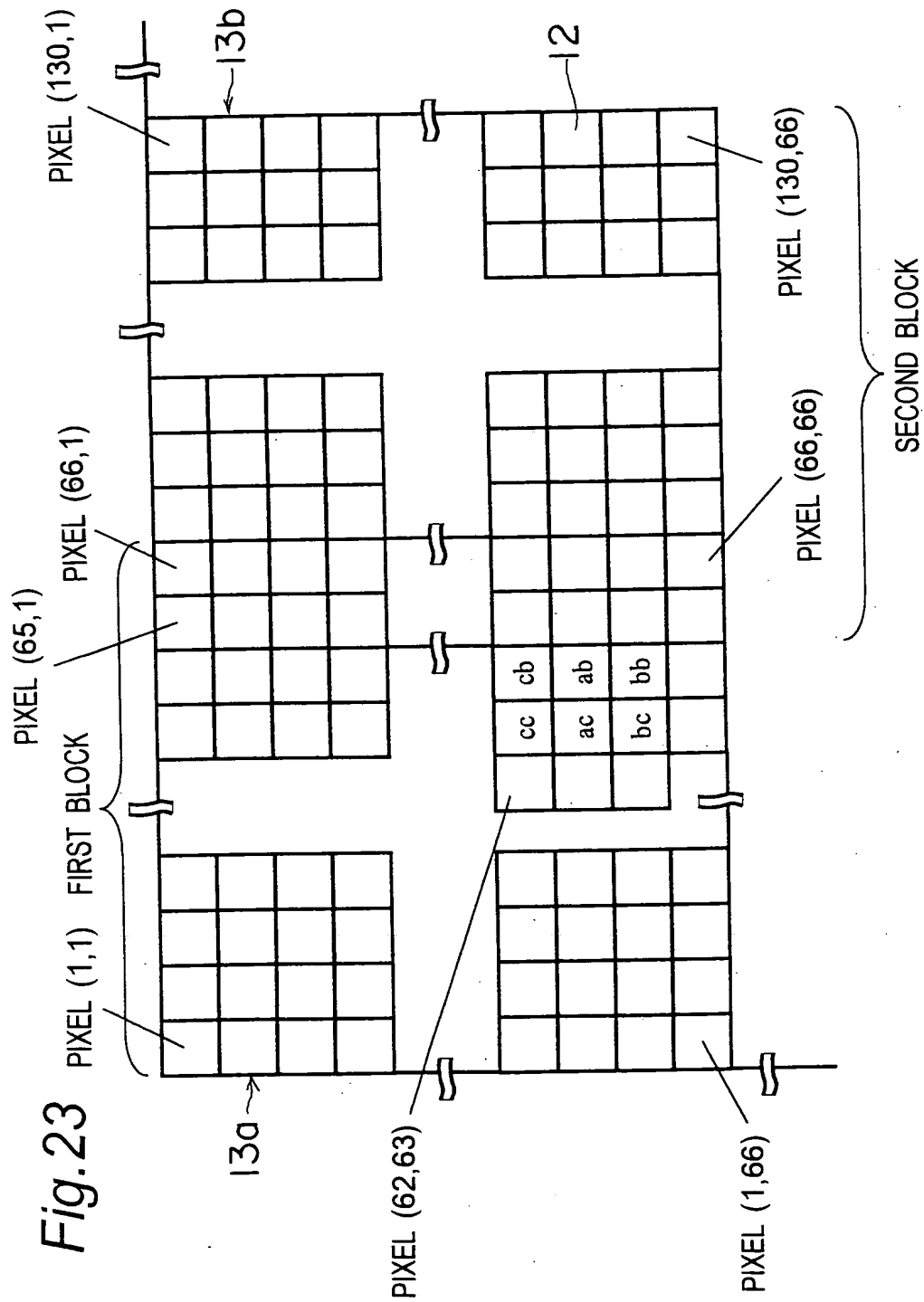
		X-COORDINATE OF PIXEL																															
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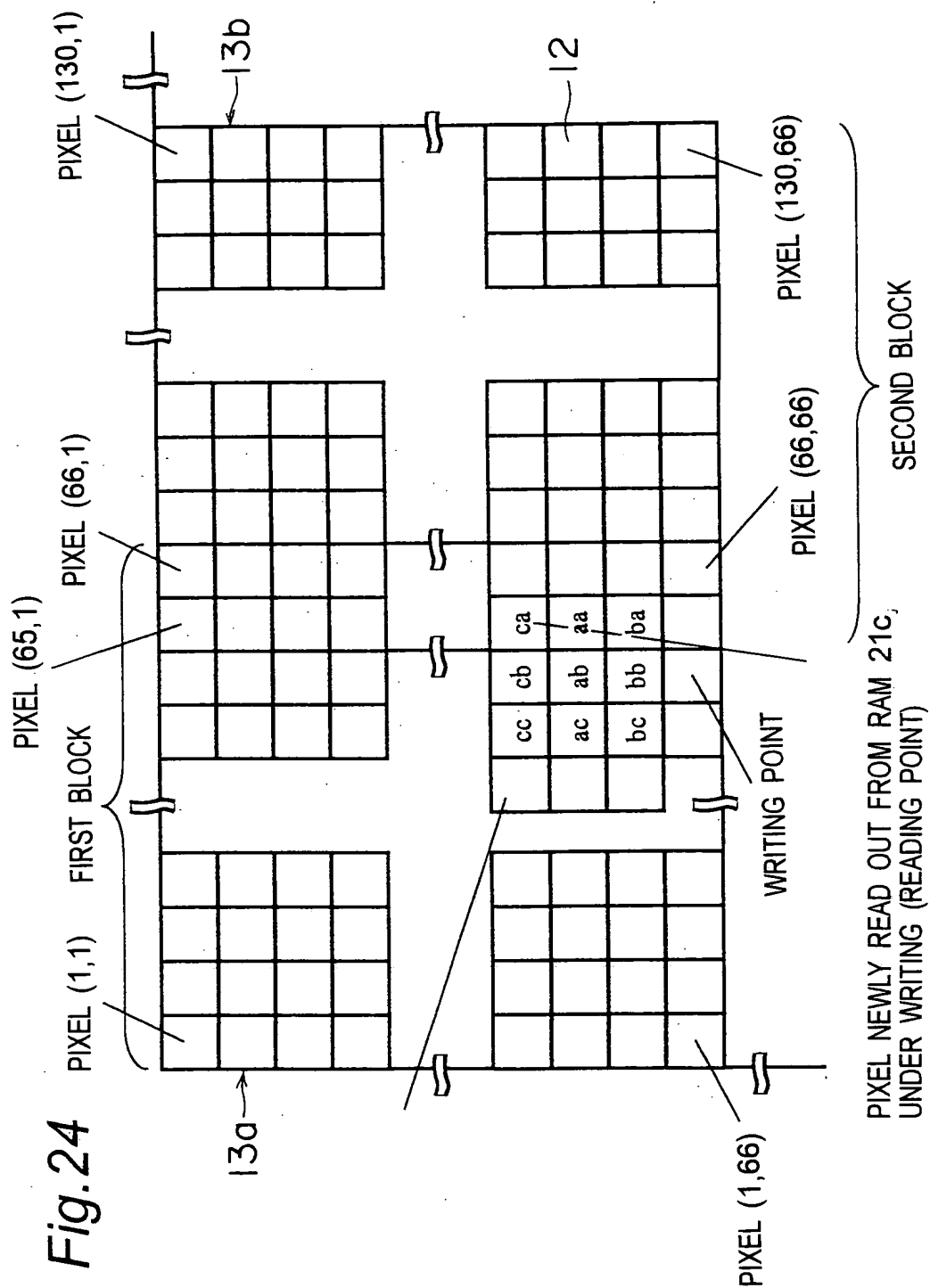
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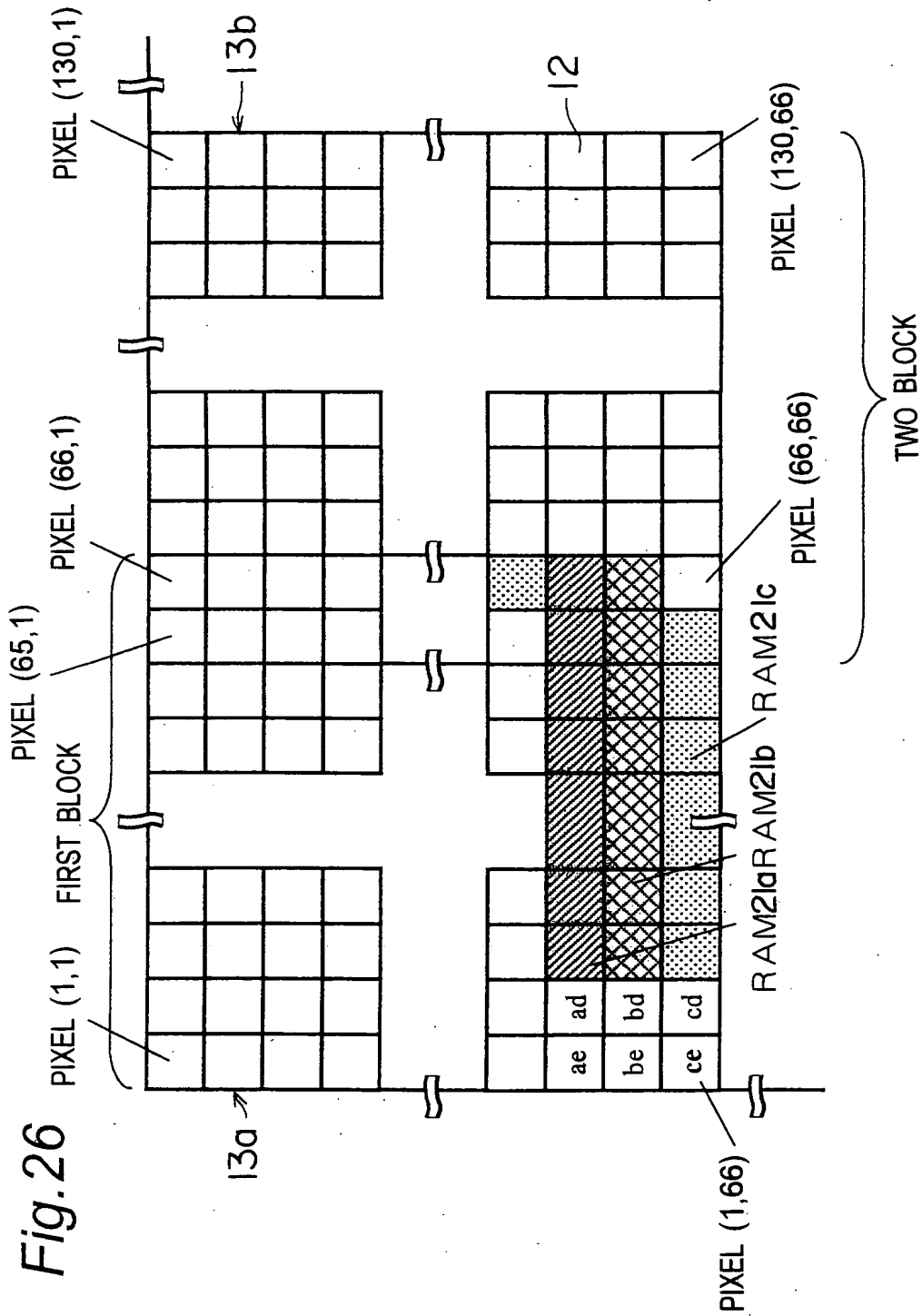
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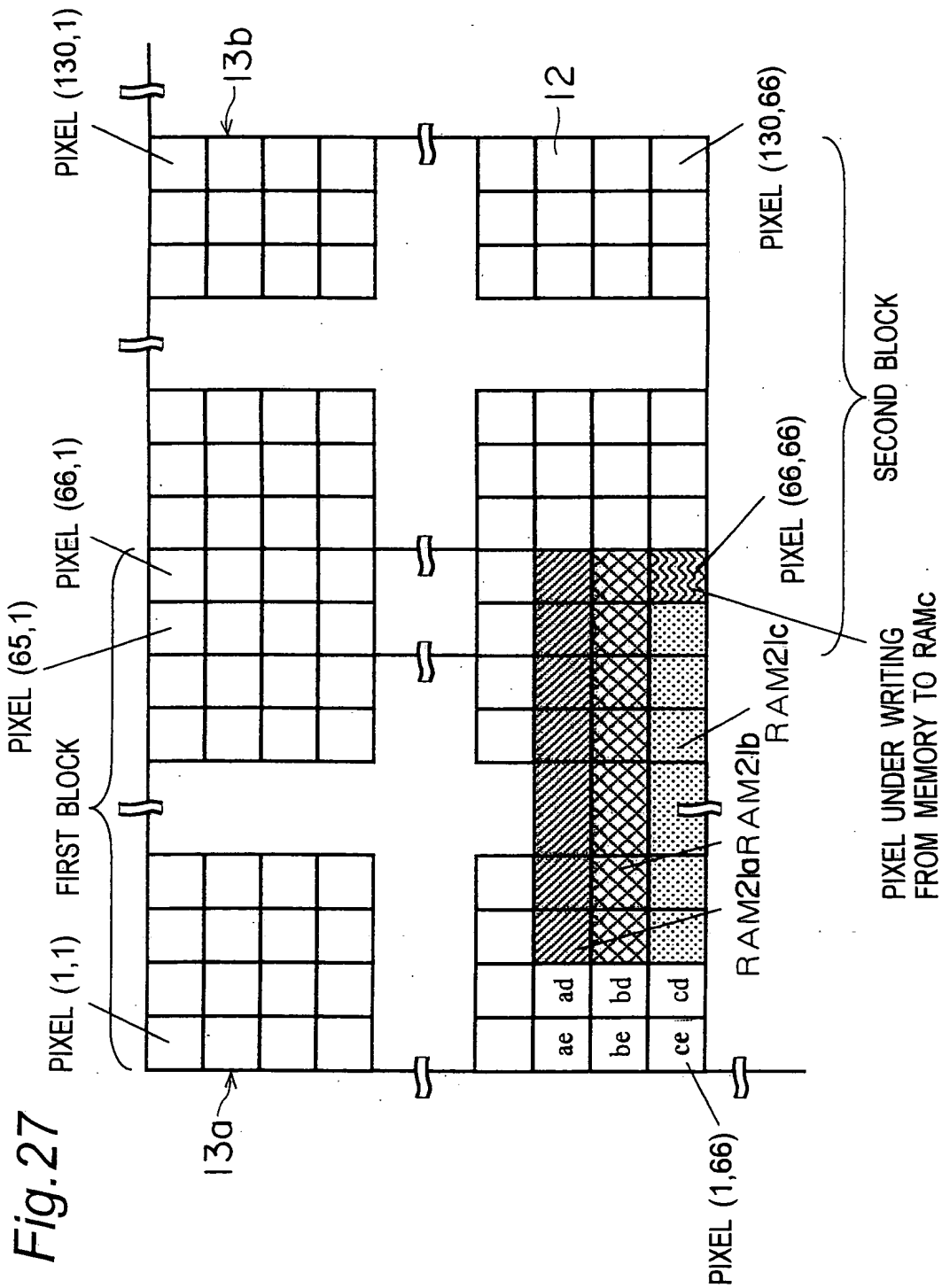


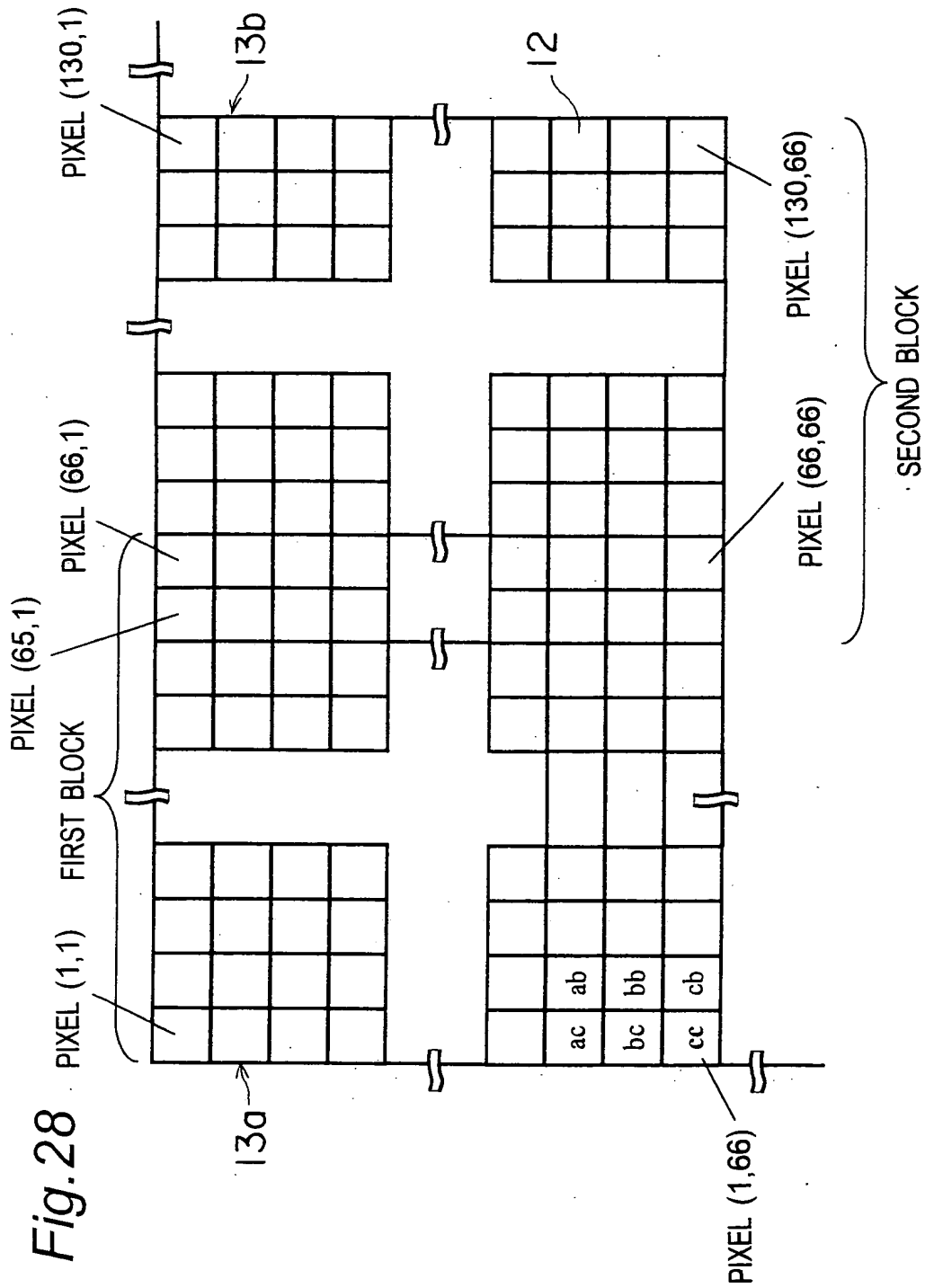


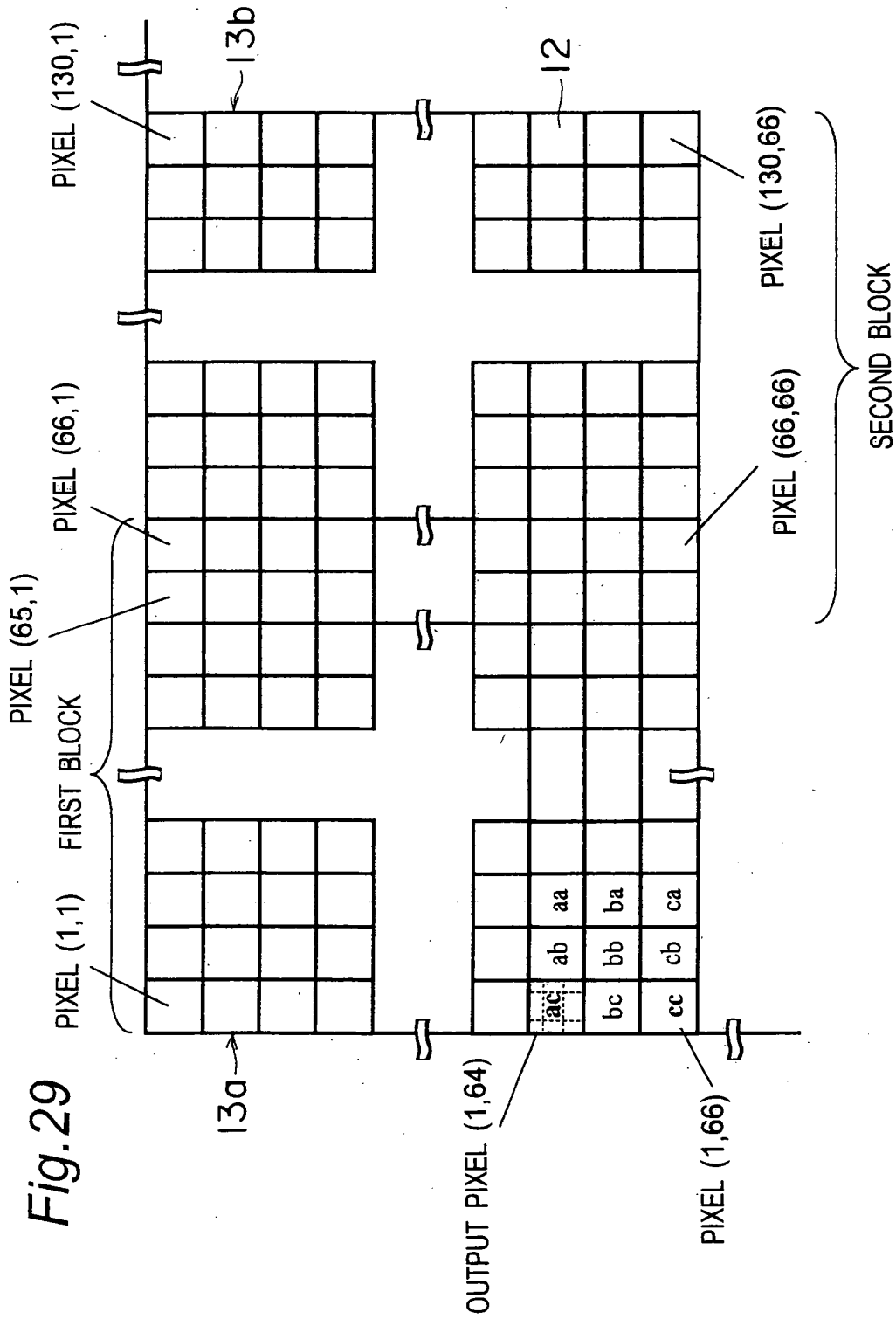


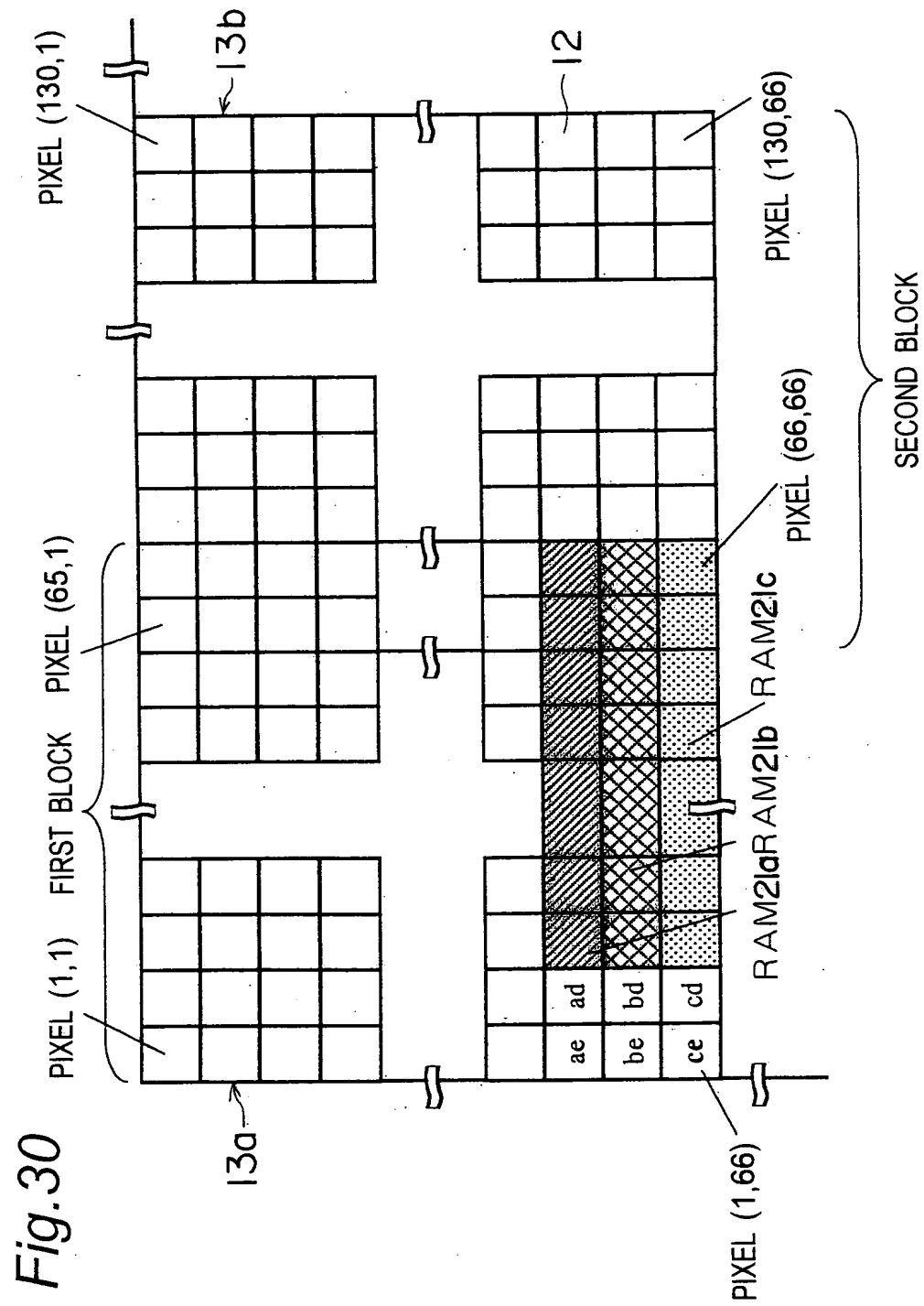


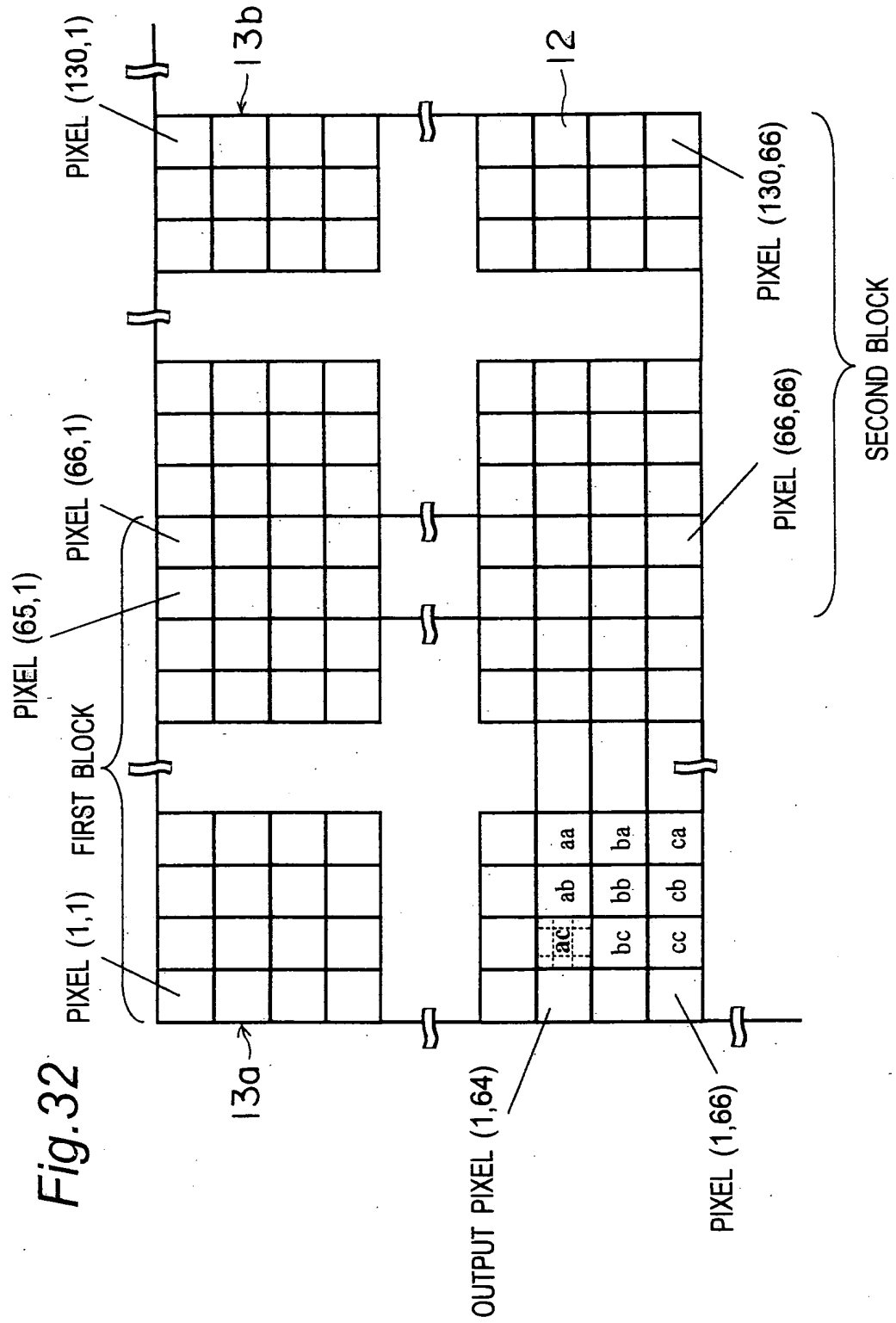


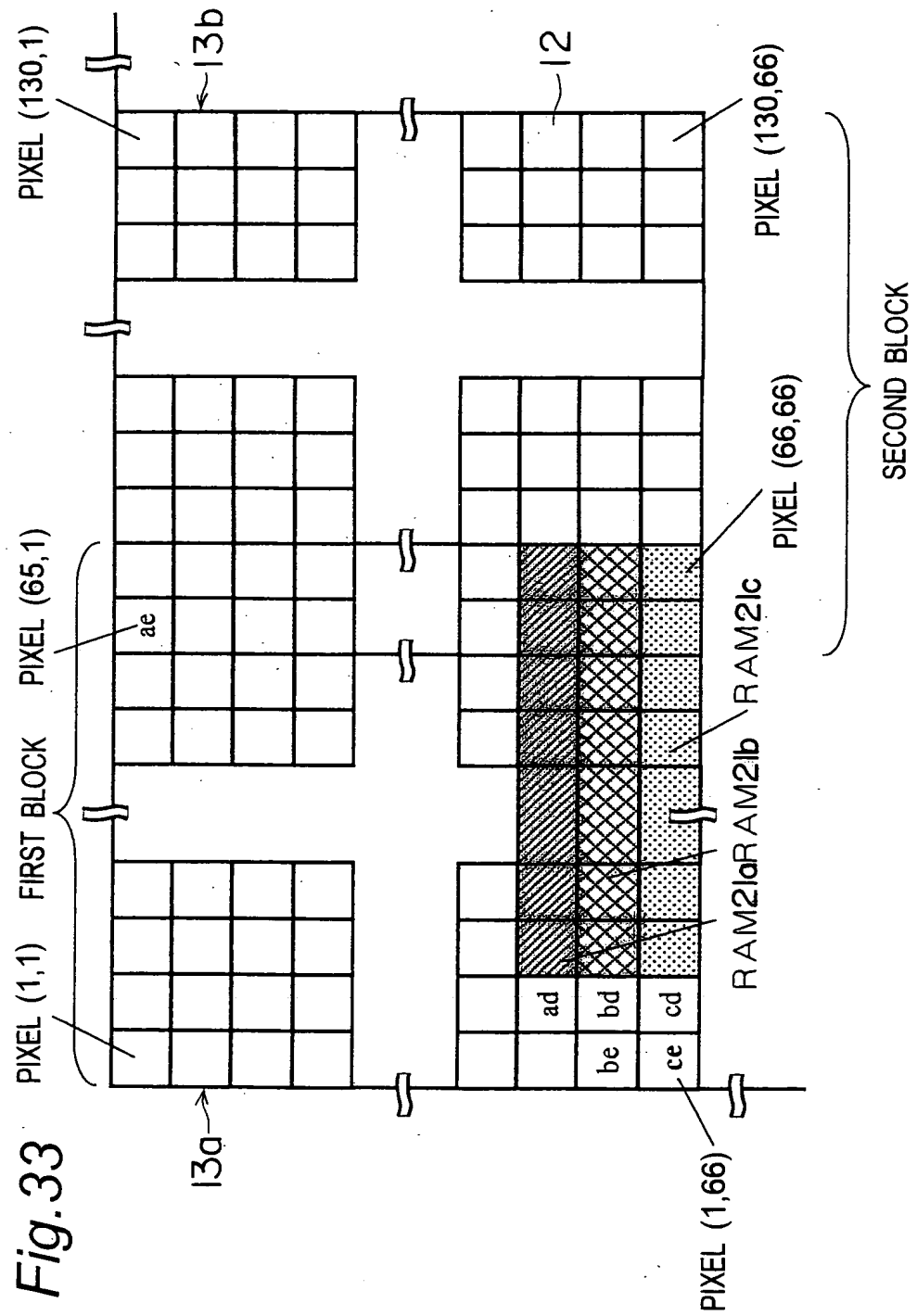


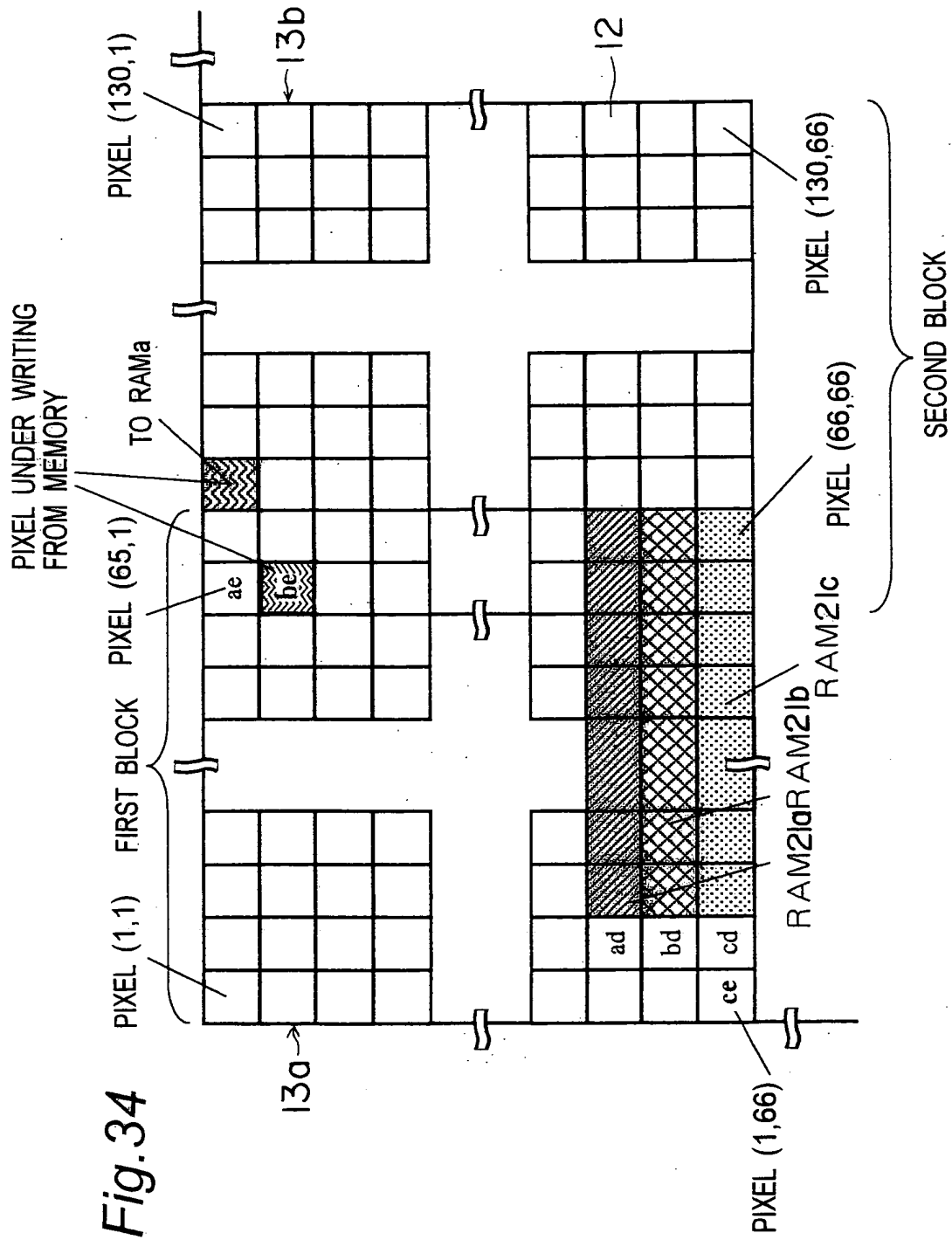


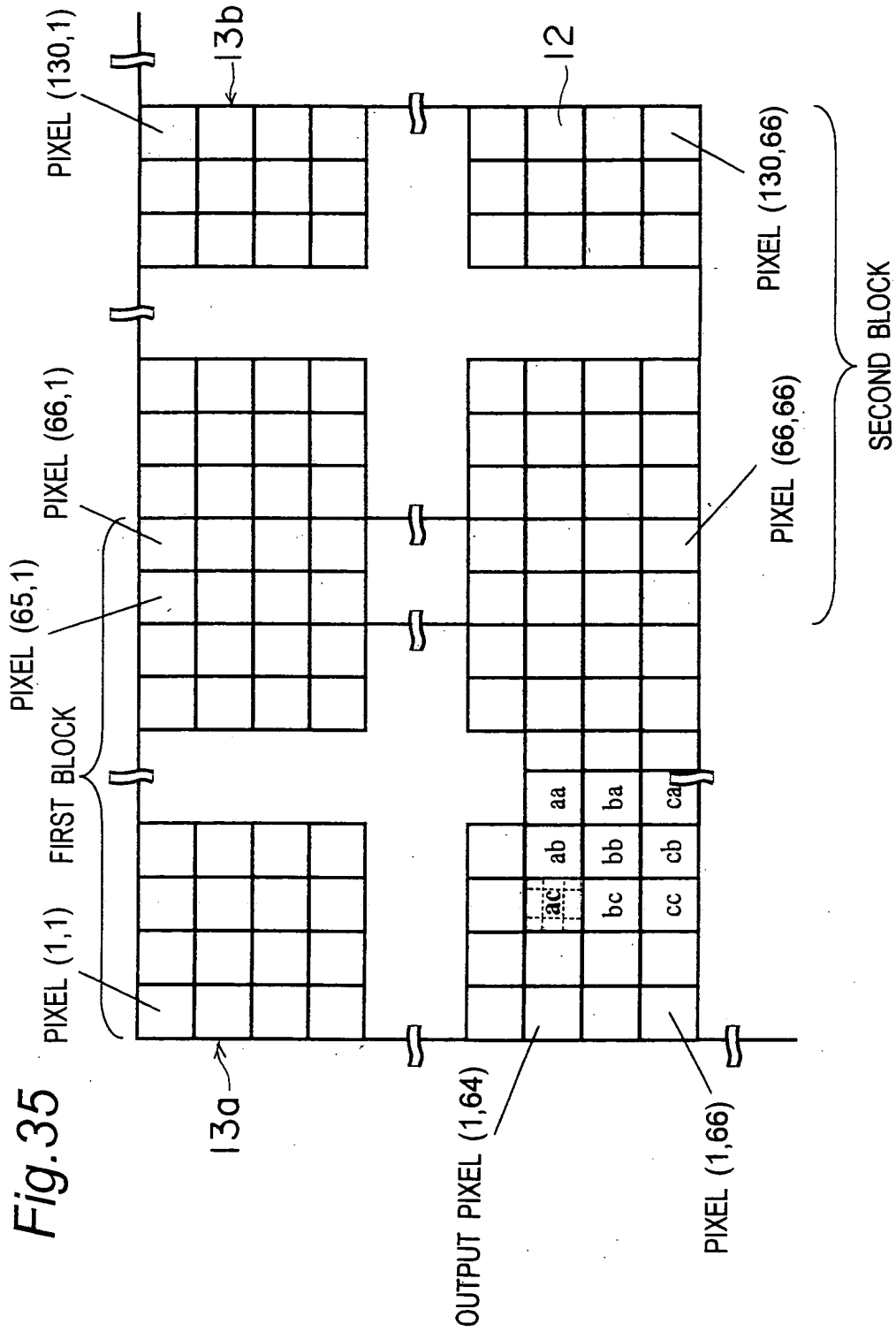












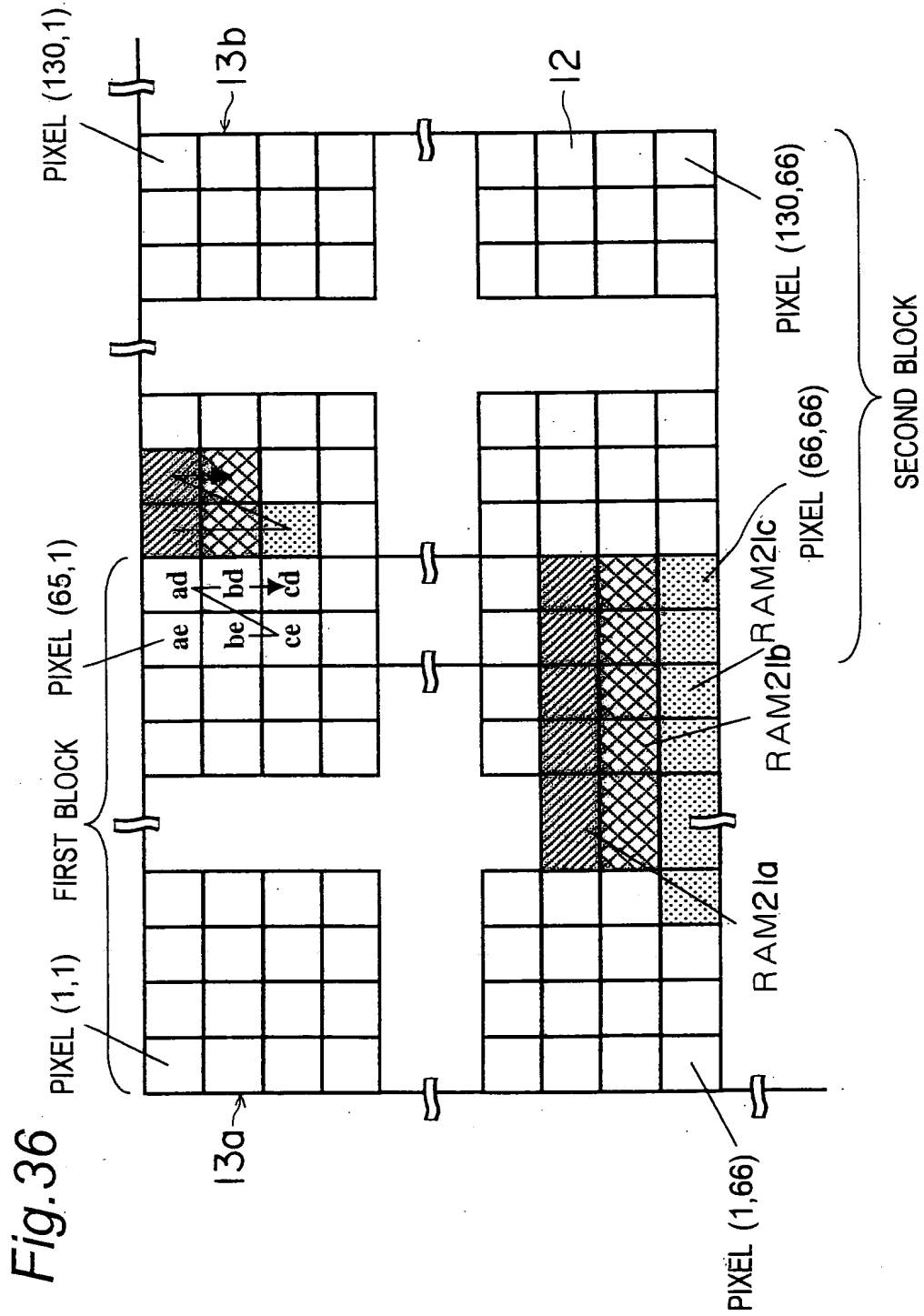


Fig. 38

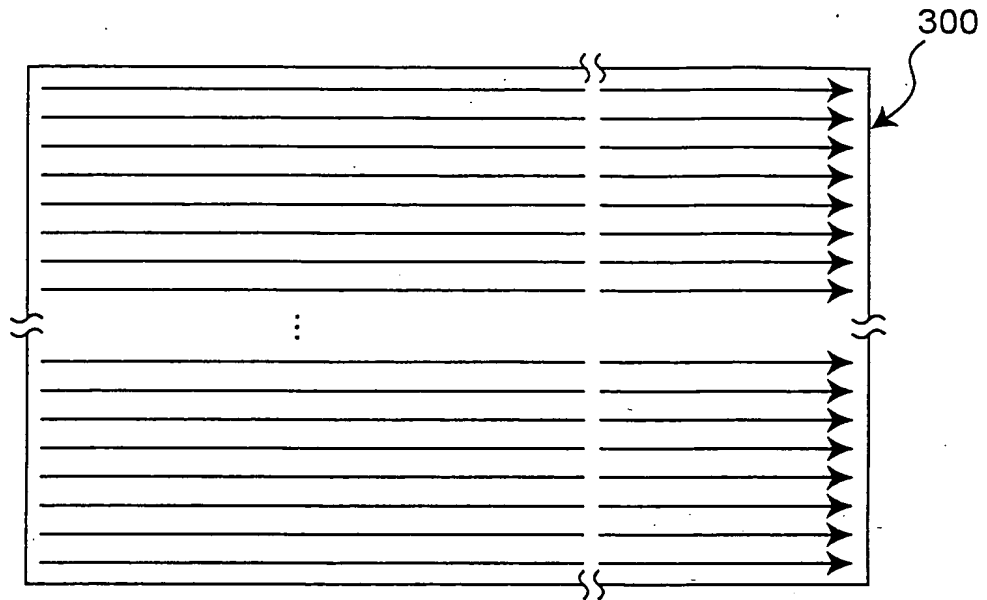


Fig. 39

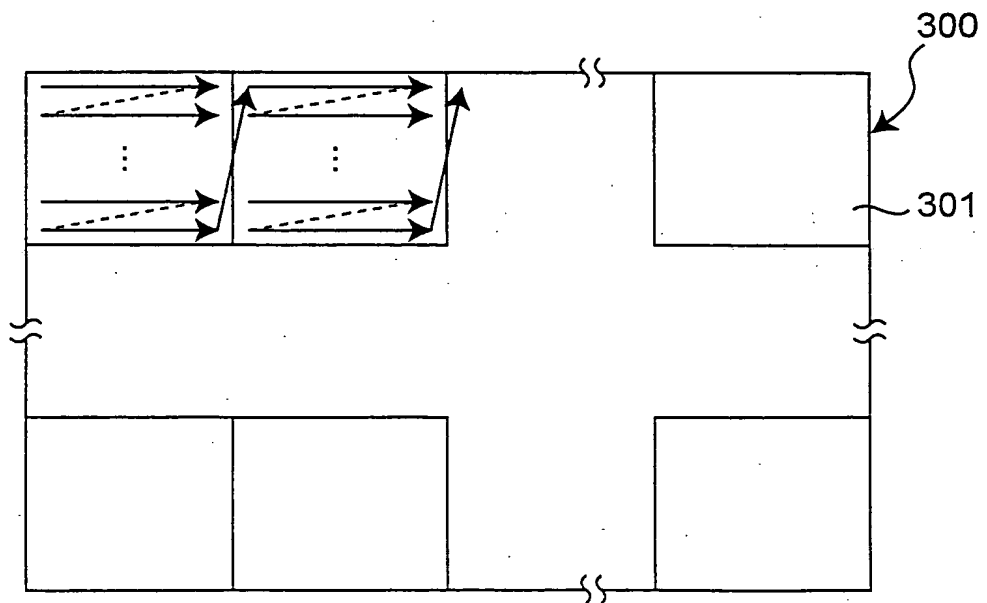


Fig.40

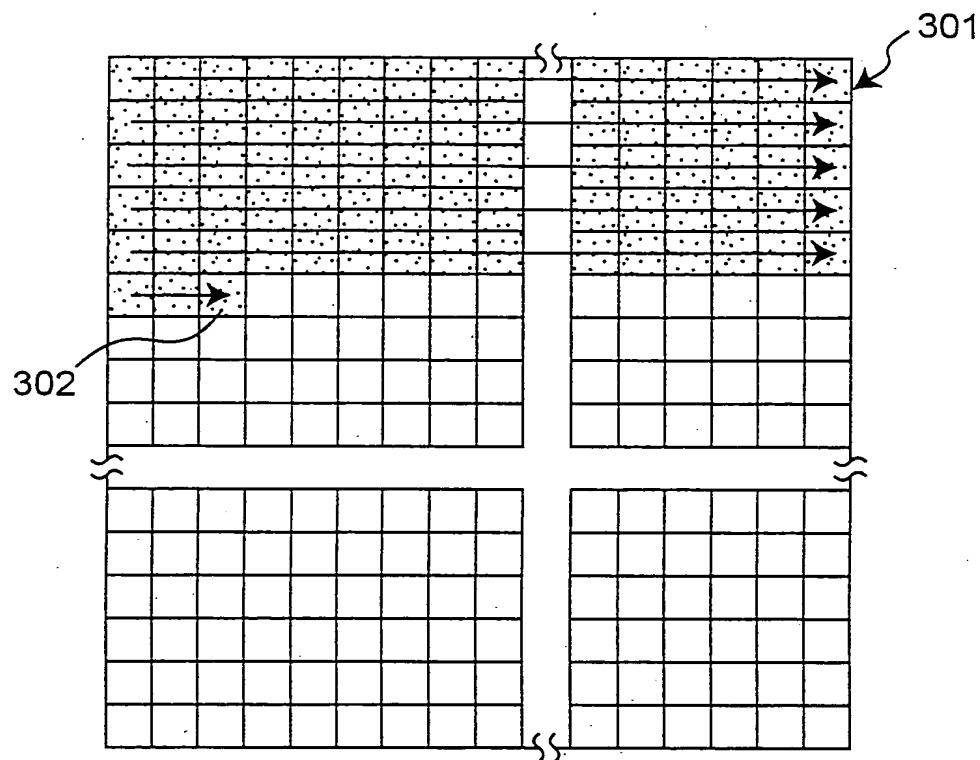


Fig.41

